



## **PRESS RELEASE**

### **IIT Mandi Faculty Honored With 'Young Scientist Award' by URSI for His Contribution to Radio Science**

**Dr. G. Shrikanth Reddy is currently working on a Project funded by the Department of Science and Technology, Govt. of India; the end application of this project will be in the area of communication and stealth technologies**

**MANDI, 25<sup>th</sup> March 2019:** Indian Institute of Technology Mandi faculty Dr. G. Shrikanth Reddy has been awarded 'The International Union of Radio Science (URSI) - Young Scientist Award 2019' for his substantial contribution to the field of radio science.

An Assistant Professor in School of Computing and Electrical Engineering, IIT Mandi, Dr. G. Shrikanth Reddy was presented with the award by the URSI Society during the 2019 URSI Asia Pacific Radio Science Conference (APRASC-2019), held on 13<sup>th</sup> March 2019 at New Delhi. The Young Scientist Award (YSA) is awarded to scientists/ researchers who are less than 35 years of age and have contributed substantially in the area of Electromagnetic Waves and Propagation.

**Speaking about this recognition, Dr. G. Shrikanth Reddy, said, "I am honored to receive this prestigious award. Such awards will motivate young researchers to work in the area of Radio Science and Electromagnetism. This award is a recognition towards contribution made by young researchers in the field of Radio Science. Since these are the days where high speed communication and robust connectivity are in great demand, I believe conferences like URSI AP-RASC will bridge the connectivity between cutting edge technology and the society".**

The YSA recognizes Dr. Reddy's past and current academic and research work in field of Radio Frequency (RF), Microwave Antennas and Passive Component Design. In the year 2012, while pursuing his PhD at IIT Bombay, Dr. G. Shrikanth started his research on, 'MIMO (Multi Input, Multi Output) Antennas and Integrated Filters' which has an end application in all communication networks. Further, in 2014, Dr. G. Shrikanth visited the University Pierre and Marie Curie (UPMC) in France for a period of six months as a Raman-Charpak Fellow where he largely studied about, 'How microwave propagates within human tissues'. In the future, this study may help in Body Area Network (BAN) communication where doctors can seek information about patient's medical condition without being physically present with the patient. In 2016, under a Postdoctoral Fellowship at State University New York (Oswego campus), Dr. G. Shrikanth worked on 'Covert Vehicular Antenna', i.e. designing hidden antennas for vehicular applications.

In 2017, Dr. G. Shrikanth Reddy started working on '**Design of Broadband Frequency Selective Structures (FSS) for Radio Frequency (RF) and Microwave Applications**'. This research has a potential application in communication and stealth technology. This project is awarded to Dr. G. Shrikanth as an Early Career Research Grant Award (ECRA) with a funding of Rs. 51.97 lakh from the Department of Science and Technology (DST), Government of India, for a period of 3 years.



For research in the area of civilian application of FSS, Dr. G. Shrikanth Reddy is collaborating with Dr. Shiv Narayan from Center for Electromagnetics (CEM) at National Aerospace Laboratory (NAL), Bengaluru. They are also jointly supervising one Ph.D. student at IIT Mandi.

Along with Dr. Reddy, 20 other researchers, across the Asia Pacific Region and beyond were awarded the YSA at APRASC-2019. This year's event in New Delhi, India attracted many international speakers and technical experts from the area of Radio Science and Wave Propagation.

### **Captions for the photographs attached:**

Photo 1 - Dr. G. Shrikanth Reddy of IIT Mandi (2nd from Left) receiving the URSI - Young Scientist Award 2019 in New Delhi

Photo 2 - Dr. G. Shrikanth Reddy, Assistant Professor, School of Computing and Electrical Engineering, IIT Mandi

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### **About The International Union of Radio Science (URSI)**

Radio science encompasses the knowledge and study of all aspects of electromagnetic fields and waves. The International Union of Radio Science (Union Radio-Scientifique Internationale), a non-governmental and non-profit organisation under the International Council for Science, is responsible for stimulating and co-ordinating, on an international basis, studies, research, applications, scientific exchange, and communication in the fields of radio science. For more information, please visit, <http://aprasc2019.com/the-international-union-of-radio-science-ursi/>

### **About IIT Mandi (<http://www.iitmandi.ac.in/>)**

IIT Mandi is fast emerging as a leader in science and technology education, knowledge creation and innovation. Since the first batch of 97 students joined in July 2009, IIT Mandi has grown to host 1,300 students including 274 PhD, 46 MS and 17 I-Ph.D. research scholars, besides 110 Faculty and 150 staff. The Institute has a growing body of alumni, nearly 850 in number.

The Institute aims to grow to 5,000 B.Tech, M.Tech/M.Sc. and M.S./Ph.D. by 2029. With 1.5 lakh sq.m. currently under construction, IIT Mandi has a fully residential campus, in Kamand, with all students and 95 percent of the faculty residing within it now.

Since 2010, IIT Mandi's faculty has bagged nearly 180 projects worth more than Rs. 85 crore. The campus houses a notable number of laboratories and facilities. The Advanced Materials Research Centre (AMRC) was created in 2013 with an investment of about Rs. 50 crore and houses advanced instruments for characterization of materials with scope for drug delivery, electrical, electronics and biological applications. It has contributed to more than 200 research publications. The Institute also hosts the 'Class 100 Clean Room' facility, a world-class research center that is first-of-its-kind in India. In 2017, Department of Biotechnology, Government of India, selected IIT Mandi to lead the prestigious Rs. 10 crore FarmerZone Project.

The Institute has an Interdisciplinary Academic Culture which is design-oriented. The unique, project-oriented B.Tech curriculum is centred on its 4-year long Design and Innovation stream. It is poised to become the first IIT to offer a B.Tech in Data Science & Engineering. Backed by a strong humanities



component, IIT Mandi has brought globally state-of-the-art science and technologies to and consciously served the Kamand Valley, Himachal and the Himalayan region. There are many active MoUs with TU9 in Germany since May 2011. Students from the Worcester Polytechnic Institute, U.S., have been visiting IIT Mandi every year since 2013.

Launched in 2016, IIT Mandi's Catalyst is the first Technology Business Incubator in Himachal Pradesh. EWOK (Enabling Women of Kamand Valley) is another innovative program run by IIT Mandi, which focuses on imparting Skills training to village-scale businesses by village women.

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