

IEEE
Madhya Pradesh
Section
Newsletter



IEEE

MADHYA PRADESH SECTION

2023

TRIVALENCE



IEEE Madhya Pradesh Section Newsletter 2023

SECTION OVERVIEW

Formed on 21st June 2021

Represented at IEEE India Council, Region 10

MEET OUR 2023 LEADERSHIP



Dr. Geetam Singh Tomar
Chairperson



Dr. Manish Dixit
Vice-Chairperson



Dr. Manmath Badapanda
Vice-Chairperson



Prof. MPS Chawla
Treasurer



Dr. Amit Ojha
Secretary

SECTION HIGHLIGHTS

- International Conferences :07
- Professional & Continuing Education Activities: 56
- Expert Talks: 23
- Student Branch Activities: 4
- Affinity Group Activities: 24
- Awards & Recognitions: 12
- Workshops: 04
- Humanitarian Activities: 05

CONFERENCES IN FOCUS

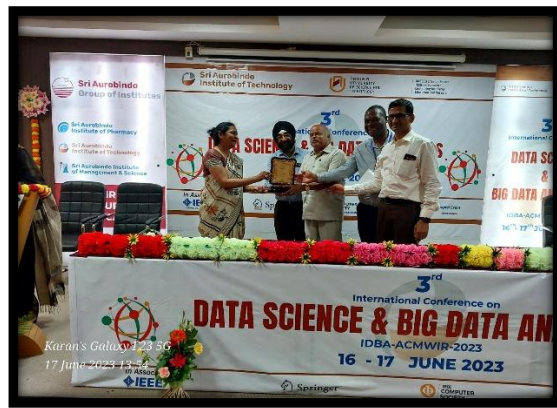
Some of the major conferences hosted in 2023:



IEEE ICBDS 2023

IEEE WCONF 2023





IDBA-ACMWIR 2023

ETAEE 2023



2023 R10 Section-Chapter Symposium

IEEE WIE ILS 2023





IEEE WIE ILS 2023

International Students Conference



PROFESSIONAL AND CONTINUING EDUCATIONAL ACTIVITIES

IEEE MP Section hosted a variety of impactful programs such as:

Name of Activity	Date
Meeting with WIE Invited Members	31st Jan to 3rd Feb 2023
Funding Opportunities on Humanitarian Projects to Meet SDG's through IEEE	23 rd February 2023
Aeromodelling workshop for Girl Students from Government School	17 th & 18 th March 2023
Hands on Training on Robotics	20 th to 25 th March 2023
IEEE Initiative: Student Internship at Godawari	01-02-2023 to 28-02-2023
IEEE Student Branch (SB) Inauguration, SSIPMT	5 th April 2023
IEEE KU SB Anniversary Celebration	5 th April 2023
Branch Counsellors and EXCOM members Meet	5 th April 2023
IEEE Student Branch Inauguration at Guru Ghasidas Vishwavidyalaya, Bilaspur	6 th April 2023
IEEE Student Branch Inauguration at CSVTU, Bhilai	6 th April 2023
IEEE MP Section Chair Visit to Kalinga University	7 th April 2023
IEEE 8th I2CT CONFERENCE 2023	7 th to 9 th April 2023
Talk on "Funding Opportunities on Humanitarian Projects to Meet SDG's through IEEE" to IEEE Vizag Section	4 th August 2023
IEEE WIE ILS 2023, Raipur	25 th & 26 th August 2023
Unlocking Potential Opportunities & Benefits in WIE	11 th September 2023
Inauguration of IEEE ICBDS 2023	7 th October 2023
An invited talk on "Hydrogen Fuel Cell Vehicle (HFCV): Revolution in Transportation" on the eve of IEEE Day	9 th October 2023
Returning Mothers Conference 2023	27 th Oct 2023
2023 R10 Section Chapter Symposium	1 st to 3 rd December 2023
"IEEE WIE AG Mentor-Mentee Event: Benefits of IEEE WIE AG Membership" launched under the R10 WIE Championship Initiative	4 th December 2023
"IEEE WIE AG Mentor-Mentee Event: How to make IEEE WIE AG self-sustainable"	8 th December 2023
Smart Garbage Monitoring System	3 rd to 7 th Oct 2023
SCIENTIFIC TOY WORKSHOP	28 th to 30 th November 2023
Faculty-Student interaction program at Acropolis Institute, Indore	14 th January 2023
Eminent Lecture- Research and career: 360 degree holistic approach	14 January 2023
Eminent Lecture-Role of IOT in healthcare domain	11 February 2023
Eminent Lecture- Hydrogen Energy: Global trends and opportunities in India for transportation	25 February 2023

Name of Activity	Date
Eminent Lecture - Challenges in Indian Power Sector	11 March 2023
Eminent Lecture - Role of Machine Learning in Power Electronics	13th May 2023
Industry 4.0 building blocks	10 June 2023
Power electronics in renewable energy systems: Opportunities and challenges	17-06-2023
IEEE PELS Day celebration 2023	01-07-2023
Student Research Symposium-2023 (SRS'23) at IIT, Indore	10-10-2023
IEEE R10 Industry - Academia workshop on "Artificial Intelligence, Machine Learning & Deep Learning"	14-10-2023
Industry academia engagement workshop	31-10-2023
Relevance of Nuclear power and SMRs in Indian perspective	2-12-2023
IEEE PELS Distinguished Lecture by Dr. Sanjib Kumar Panda	25-12-2023
IEEE IES Distinguished Lecture by Prof. Sri Niwas Singh	25-12-2023
The Past, Present, And Future Electric Power Distribution Systems	6 th January 2023
Distribution Transformer Monitoring and Failure Analysis	9-10th January, 2023.
TRANSFORMER SYSTEM INTERACTIONS AND MODELING	14 TH FEBRUARY, 2023
SUB-LOAD DESPATCH CENTRE, 400 KV SWITCH YARD, INDORE (MP)	16 TH FEBRUARY, 2023
520 MW HYDRO POWER PLANT, OMKARESHWAR (MP)	01 ST APRIL, 2023
EDUCATE FACULTY AND STUDENTS ABOUT THE ADVANTAGES OF IEEE AND IEEE PES FOR THEIR PROFESSIONAL DEVELOPMENT	21 ST APRIL, 2023
ELECTRICITY MARKET IN INDIA: EMERGING MEGATRENDS	22 nd MAY, 2023
INDIAN ELECTRICITY GRID CODE 2023: REGULATORY PROVISIONS FOR INTEGRATION OF RENEWABLE ENERGY RESOURCES	8 th JULY, 2023
Vulnerability Management and Intrusion Detection in the Power Grid Operational Technology (OT) Environment	18 August 2023
Women In Power To Light The Future	August 25, 2023
WOMEN IN POWER-CHALLENGES AND OPPORTUNITIES	AUGUST 25, 2023
Effective Technical Communication	September 26, 2023
Samwad'23 is an event celebrating the role of Women in Engineering (WIE) and technology.	03-11-23 to 05-11-23
Aarambh'23 was a social initiative aimed at engaging a large number of students from unprivileged schools, offering them career guidance and introducing them to the realm of science through experiments and engaging games.	09-09-23


RECOGNITIONS, AWARDS & ACHIEVEMENTS




IEEE Region 10 Women in Engineering
Congratulates
WIE Champions 2023 Awardees


Mentor	Mentee
IEEE WIE KU SB	IEEE WIE AG IIIT Naya Raipur
JSS Academy of Technical Education - Noida, WIE	Raj Kumar Goel Inst of Tech, Ghaziabad, India
Sri Lanka Section Affinity Group, WIE	M.H. Saboo Siddik College of Engineering
Mehran University of Engineering and Technology, WIE AG	Hamdard Inst of Engineering and Tech, WIE AG
Madras Section Affinity Group, WIE	Sri Sivasubramaniya Nadar College of Engineering
Basaveshwar Engineering College, WIE	Dawood Student Branch
IEEE WIE Affinity group of Jeppiaar Engineering College	QIS College of engineering & technology

WIE Champion- IEEE KU SB



IEEE Women in Engineering
15 h · 🌐

Locations announced for IEEE Women in Engineering International Leadership Summit (ILS)!
We congratulate all those who are selected to host the summit in 2023.
To learn more about the ILS, please visit <https://wie.ieee.org/wie-leadership-summits/>



WIE ILS Locations Announced - Congratulations to those who were selected!

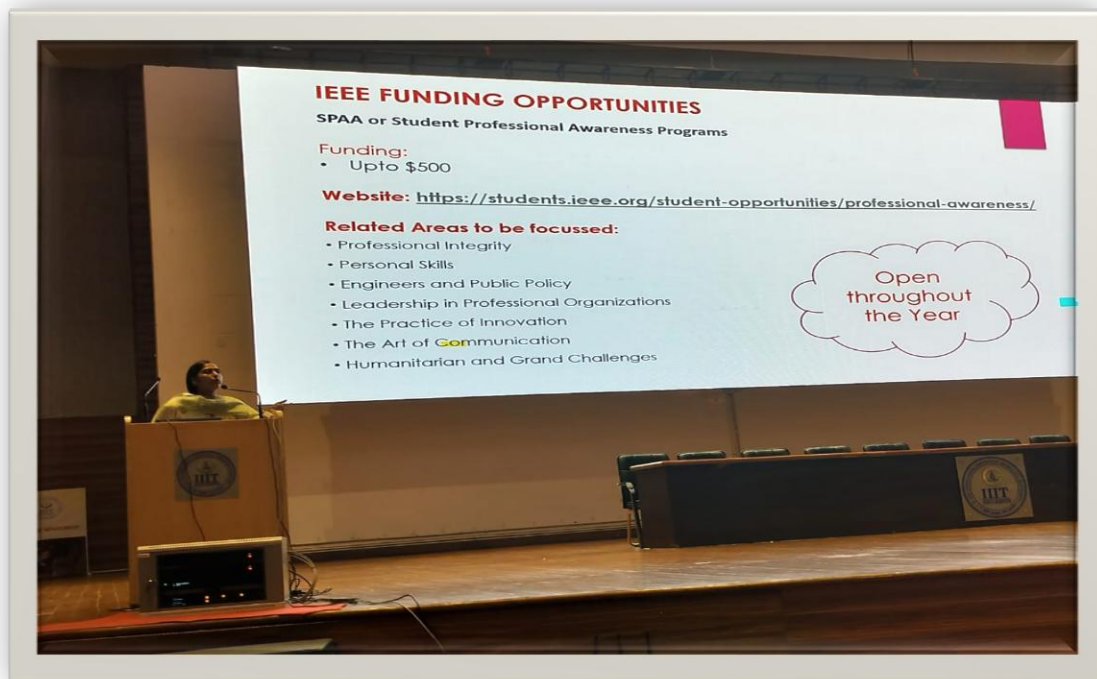
- Region 4-**
Michigan, USA 27 October 2023
- Region 8-**
Ifrane, Morocco 15 November 2023
- Region 9-**
Asunción, Paraguay 26-27 October 2023
- Region 10-**
Visakhapatnam, India. 13-14 November 2023
Raipur, India 25-26 August 2023
Auckland, New Zealand 11-12 December 2023
Allahabad, India 16-17 August 2023
Karachi, Pakistan 2-3 August 2023

wie.ieee.org

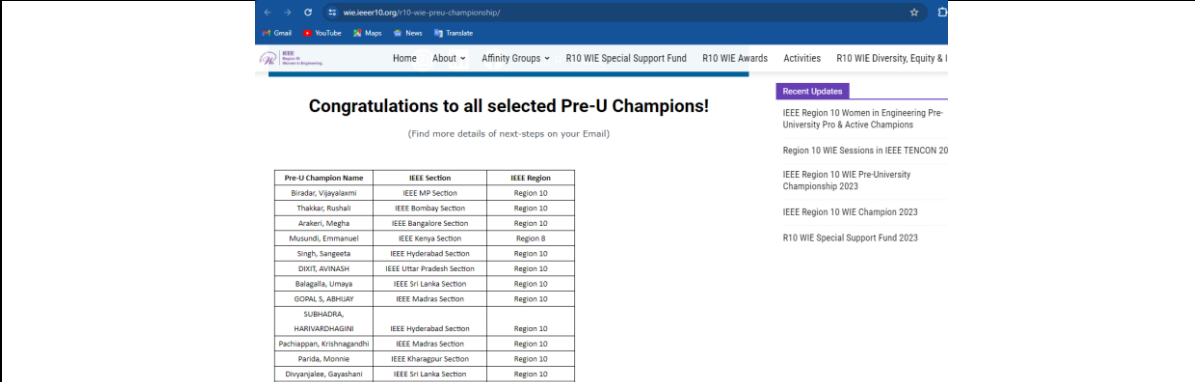
Hosted IEEE WIE ILS 2023, Raipur



R10 WIE Championship Initiative
IEEE WIE AG Mentor-Mentee Event: Benefits of IEEE WIE AG
Membership



R10 WIE Championship Initiative
IEEE WIE AG Mentor-Mentee Event: How to make IEEE WIE AG
self-sustainable



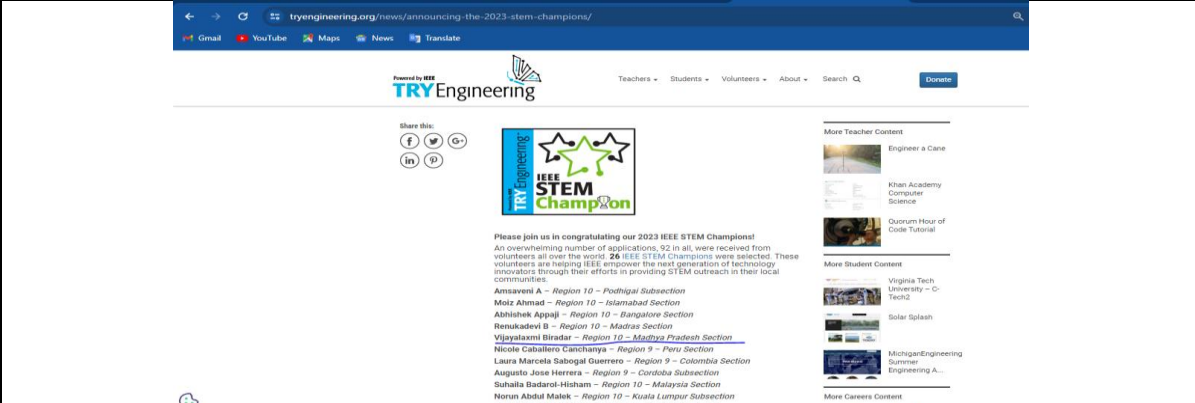
Congratulations to all selected Pre-U Champions!
(Find more details of next-steps on your Email)

Pre-U Champion Name	IEEE Section	IEEE Region
Biradar, Vijayalaxmi	IEEE MP Section	Region 10
Thakkar, Rushali	IEEE Bombay Section	Region 10
Akaleri, Megha	IEEE Bangalore Section	Region 10
Musundi, Emmanuel	IEEE Kenya Section	Region 8
Singh, Sangeta	IEEE Hyderabad Section	Region 10
Govil, Arjun	IEEE Uttar Pradesh Section	Region 10
Balagalla, Ummya	IEEE Sri Lanka Section	Region 10
GONU, S. ABHIRAM	IEEE Madras Section	Region 10
SUBHADRA,		
HARIVANDHAGINI	IEEE Hyderabad Section	Region 10
Pachappa, Krishnagandhi	IEEE Madras Section	Region 10
Parida, Monnie	IEEE Khargpur Section	Region 10
Dhyanjalee, Gayashani	IEEE Sri Lanka Section	Region 10
Bhaskar, Tushita	IEEE Kolkata Section	Region 10

Recent Updates

- IEEE Region 10 Women in Engineering Pre-University Pro & Active Champions
- Region 10 WIE Sessions in IEEE TENCON 20
- IEEE Region 10 WIE Pre-University Championship 2023
- IEEE Region 10 WIE Champion 2023
- R10 WIE Special Support Fund 2023

Dr. Vijayalaxmi awarded “IEEE Pre University Champion”



TRY Engineering

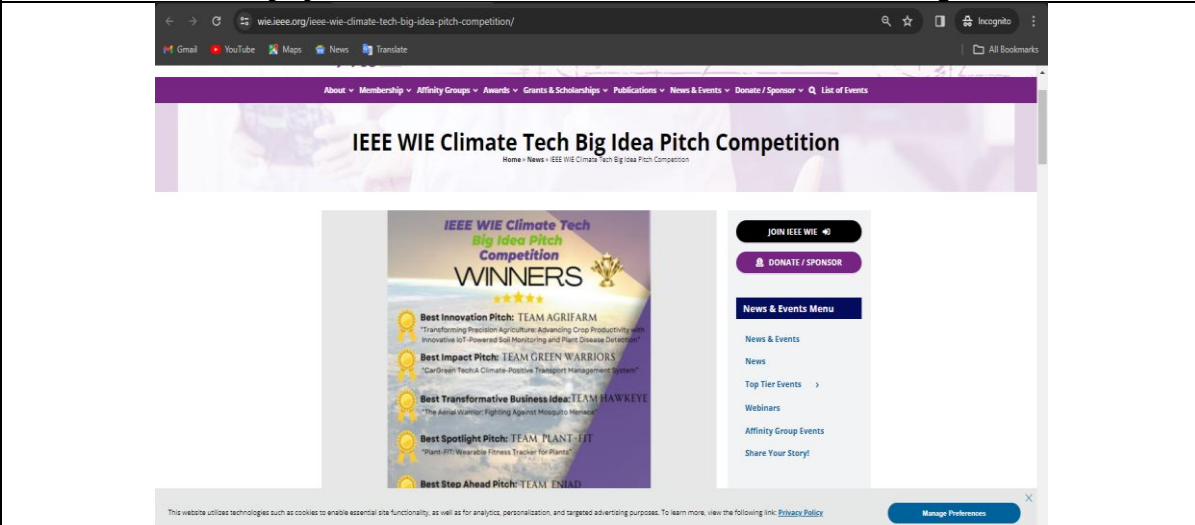
Share this:

IEEE STEM Champion

Please join us in congratulating our 2023 IEEE STEM Champions! An overwhelming number of applications, 92 in all, were received from volunteers all over the world. 26 IEEE STEM Champions were selected. These volunteers are helping IEEE empower the next generation of technology innovators through their efforts in providing STEM outreach in their local communities.

Amsavani A – Region 10 – Podhigai Subsection
Molz Ahmad – Region 10 – Islamabad Section
Abhishek Appaji – Region 10 – Bangalore Section
Renukadevi B – Region 10 – Madras Section
Vijayalaxmi Biradar – Region 10 – Madhya Pradesh Section
Nicole Caballero Canchanya – Region 9 – Peru Section
Laura Marcela Sabogal Guerrero – Region 9 – Colombia Section
Augusto Jose Herrera – Region 9 – Cordoba Subsection
Suhalla Badar-Hisham – Region 10 – Malaysia Section
Norun Abdul Malek – Region 10 – Kuala Lumpur Subsection
Lakshmi Madhusankar – Region 10 – Sri Lanka Section

Dr. Vijayalaxmi awarded “IEEE STEM Champion”



IEEE WIE Climate Tech Big Idea Pitch Competition

WINNERS

- Best Innovation Pitch: TEAM AGRIFARM**
“Transforming Precision Agriculture: Advancing Crop Productivity with Innovative IoT-Powered Soil Monitoring and Plant Disease Detection”
- Best Impact Pitch: TEAM GREEN WARRIORS**
“CarGreen Tech: A Climate-Positive Transport Management System”
- Best Transformative Business Idea: TEAM HAWKEYE**
“The Active Warrior: Fighting Against Mosquito Bites”
- Best Spotlight Pitch: TEAM PLANT-FIT**
“Plant-FIT: Wearable Fitness Tracker for Plants”
- Best Step Ahead Pitch: TEAM ENIAD**

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News & Events Menu

- News & Events
- News
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- Webinars
- Affinity Group Events
- Share Your Story!

Best Innovation Pitch Honorable Mention in IEEE WIE Climate Tech Big Idea Pitch Competition



IEEE India Council Award- Technologist of the Year



R10 Best Membership growth- Medium Section Award



MP section, Gujrat Section & Delhi Section won \$150 under Green Tech Innovation Challenge at IEEE R10 Section Chapter Symposium at Goa.



Returning Mothers Conference 2023






Outstanding Branch Chapter Advisor Award

Best Medium Section for Membership Award

Best Medium Section 2023 Award of \$1000

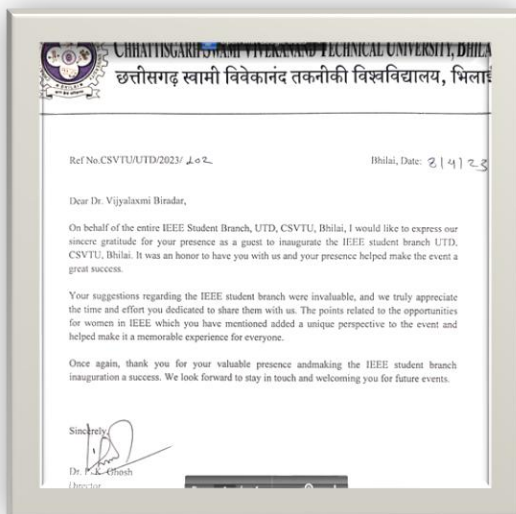
AFFINITY GROUP ACTIVITIES

 <p>A collage of four photographs showing a workshop for girls. Top-left: Girls working on projects. Top-right: A group photo of girls in front of Kalinga University. Bottom-left: A Google Map Camera overlay showing the location: Atal Nagar-Nava Raipur, Chhattisgarh, India (5R9C+6G8, Kalinga University, Atal Nagar-Nava Raipur, Chhattisgarh 492101, India). Bottom-right: A group of girls and an adult male working on a project.</p>	<p>Aeromodelling workshop for Girl Students from Government School</p>
<p>Student Internship at Godawari E-Vehicles (Raipur)</p>	 <p>A photograph of four students in blue uniforms looking at a small object, possibly a component of an e-vehicle.</p>
 <p>A photograph of a group of students and an adult male working on a project. A Google Map Camera overlay shows the location: Atal Nagar-Nava Raipur, Chhattisgarh, India (5R9C+6G8, Kalinga University, Atal Nagar-Nava Raipur, Chhattisgarh 492101, India). The overlay also includes coordinates: Lat 21.168087° and Long 81.821222°, and the date/time: 24/03/23 10:58 AM GMT +05:30.</p>	<p>Hands on Training on Robotics</p>
<p>Funding Opportunities on Humanitarian Projects to Meet SDG's through IEEE</p>	 <p>A photograph of a woman in a yellow sari standing in front of a presentation screen displaying a website with various charts and data.</p>



**IEEE Student Branch (SB)
Inauguration, SSIPMT**

**IEEE Student Branch (SB)
Inauguration at Guru Ghasidas
Vishwavidyalaya, Bilaspur**



**IEEE Student Branch (SB)
Inauguration at CSVTU, Bhilai**

International Women's Day



Science Model Competition



SRS 2023





IEEE PES Branch Chapter,
MITS, Gwalior

IEEE PELS Day Celebration 2023



WEBINAR ON
POWER ELECTRONICS PRODUCT DEVELOPMENT PROCESS
AND CHALLENGES

Mr. Manoj Modi
Chief Technology Officer, CastNix Pvt. Ltd. Dewas

Schedule

Date: 16 July 2023

Time: 10:30AM to 11:30AM

Mode: Online

Organized by:
IEEE PELS SBC and IEEE Student Branch
SGSITS Indore

Link to Join:
meet.google.com/rxz-xsha-ieb



Webinar on: - Power
Electronics Product
Development Process and
Challenges

DISTINGUISHED LECTURE/EXPERT TALK



INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)



IEEE
SB CODE: ST88701



PES
POWER ELECTRONICS SOCIETY

Distinguished Lecture

Topic: Wide Bandgap (WBG) Power Electronics Systems for Heavy-Duty Vehicles

Abstract:
This presentation will cover publicly known information on the 200 kW 1050 VDC silicon carbide (SiC) Inverter technology development project in John Deere. The SiC inverter converts vehicle engine power into electrical power needed for the permanent-magnet-motor based electric powertrain used in heavy-duty construction and mining vehicles. The presentation will cover design, development, and test verification of WBG technology deployed in the successful realization of a power-dense (4.8 kW/litre) high-temperature (suitable for 115°C coolant) high-efficiency (> 90% over entire range of coolant) SiC dual-inverter.



Dr. B. N. Singh
John Deere Inc. USA

Program Committee



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Patron



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Vice Chair, IEEE MP Section



APPS Chandra
Treasurer, IEEE MP Section



M. K. Badgampati
Chair, PES MP Section



Prof. Shashendra Sharma
Branch Counselor

Organizing Committee



Sourabh Jain
Chair, PES-SBC



Azad Singh Thakur
Secretary, PES-SBC




QR for Registration


30 Dec. 2023

10:00AM


G J Auditorium, SGSITS INDORE



IEEE
Advancing Technology for Humanity



A/S



IEEE IIT




IEEE

IEEE AP-S SBC IIT Indore,
in collaboration with
IEEE SB IIT Indore and IEEE AP-S MP Section

Invited Talk


On
Recent Advancements of High Frequency Communications: An Indian Perspective

By


Dr. Somak Bhattacharyya
Associate professor
Department of Electronics Engineering
IIT(BHU), Varanasi

Date: October 31, 2023 (Tuesday) Time: 16:00 Hours (IST)

Scan the QR code to join:



Online platform: Webex
Venue: POD 1C- 301
IIT Indore

Host
Maharana Pratap Singh
Chair
IEEE AP-S SBC, IIT Indore

Contact:
Email: phd19010201@iiti.ac.in
Mob: +91-9022611783

IEGC 2023 : Regulatory Provisions for Integration of RE Resources

Mr. Rahul Shukla
Chief Manager, NLDC
Grid Controller of India Ltd.



Monday, 08 July 2023
IST 04:00 PM (GMT+5:30)
Scan QR code to join !!



**IEEE MP Section
PES Chapter**

Power & Energy Society®

PES DLP on "Effective Technical Communication"

Prof. S. V. Kulkarni
Dept. of Elect. Engg.,
IIT Bombay, India



Date - Tuesday, 26 Sep. 2023
Time - 06:00 PM (GMT+5:30)
Scan QR code to register



**IEEE MP Section
PES Chapter**

Power & Energy Society®



IEEE

MADHYA PRADESH SECTION

"Electricity Market in India: Emerging Megatrends"

Ms. S. Usha

Chief General Manager, WRLDC
Grid Controller of India Ltd.



Monday, 22 May 2023
IST 04:30 PM (GMT-5:30)
To join scan QR code



IEEE MP Section
PES Chapter



ROLE OF MACHINE LEARNING IN POWER ELECTRONICS



Date : May 13, 2023

Time: 5:00 PM (IST)

Dr. S. Albert Alexander
Chairman, IEEE Power Electronics Society,
IEEE Madras Section
UGC Raman Research Fellow
Associate Professor
School of Electrical Engineering
Vellore Institute of Technology, Vellore.

WebEx Link
SCAN HERE!



Link:
<https://shorturlgq/fVmv>
Meeting number:
2539 354 2666
Meeting password:
42wFE6Jr3mr



Hydrogen Energy: Global Trends and Opportunities in India for Transportation



Date : Feb 25, 2023
Time: 5:00 PM (IST)

Prof. Akshay Kumar Rathore
IEEE fellow
Professor
Singapore Institute of Technology, Singapore

WebEx Link
SCAN HERE!



Link:
shorturl.at/qsz46
Meeting number:
2535 187 9076
Meeting password:
PvrES6myC88



**Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore**

Udbhavhana 2022-2023

Topic – "Advances in Nearest Neighbor
Searching in High Dimensions:
Techniques, Challenges, and Applications"



Speaker
Dr. Rupali Bhartiya
Assistant Professor
Shri Vaishnav Institute of
Information Technology, SVVV



Prof. Upinder Dhar
Vice Chancellor
SVVV, Indore

Date: 31 May
Time: 4:00pm.

For any query, please contact:

Dr. Dipali Saxena :- 7089268315
Dr. Aditi Veda :- 9425325388

Coordinator Udbhavhana 2022-2023 Prof. Uttam Sharma

PELS IEEE IES IEEE IRC IEEE
MADHYA PRADESH SECTION MADHYA PRADESH SECTION MADHYA PRADESH SECTION

Industry 4.0 Building blocks



Dr. Prashant R Nair
Professor & Vice Chairman
IQAC Cell,
Amrita Vishwa Vidyapeetham,
Coimbatore

Date :
June 10, 2023
Time:
6:00 PM (IST)

WebEx Link
SCAN HERE!



Link: https://t.ly/ia_1
Meeting number:
2532 516 8257
Meeting password:
7CPS66PC2fr



PELS IEEE IES IEEE IRC IEEE
MADHYA PRADESH SECTION MADHYA PRADESH SECTION MADHYA PRADESH SECTION

Power Electronics in Renewable Energy Systems: Opportunity and challenges



Ts. Dr. Ramani Kannan
Chairman,
IEEE PELS Malaysia Chapter
Senior Lecturer
Department of Electrical and
Electronics Engineering,
Universiti Teknologi
PETRONAS, Malaysia

Date :
June 17, 2023
Time:
4:00 PM (IST)

WebEx Link
SCAN HERE!



Link:
<https://shorturl.ac/po>
werelectromestalk
Meeting number:
2534 405 7680
Meeting password:
PshQ9Xwvq23



IRC IEEE IES IEEE PELS IEEE
MADHYA PRADESH SECTION MADHYA PRADESH SECTION MADHYA PRADESH SECTION

Role of IOT in Healthcare Domain



Dr. Durgesh Nandan
Symbiosis International University,
Pune, India.

Date : Feb 11, 2023
Time: 5:30 PM (IST)

WebEx Link
SCAN HERE!



Link:
shorturl.at/cgwJ5
Meeting number:
2535 419 9190
Meeting password:
RMdyFCmg974



atirpathi@ieee.org

IEEE Sensors Council

2D Magnetic TMDs for Spintronics and Quantum Sensing

DISTINGUISHED LECTURE

Hosted by:
IEEE Sensors Council Student Branch Chapter IIT INDORE

Prof. Eui-Hyeok Yang
Department of Mechanical Engineering
Center for Quantum Science and Engineering
Stevens Institute of Technology, USA.



Scan to register! 11:00 AM (IST)
22 June 2023



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IEEE Student Chapters IIT Indore

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<https://www.sensors.csi.cmu.edu/>

Biography
The Distinguished Lecturer (DL) Dr. E. H. Yang began his tenure as a Senior Member of the Engineering Staff at NASA's Jet Propulsion Laboratory and led several projects funded by NASA, DARPA, and NRO. At JPL, he managed and monitored several NASA SBIR projects and participated in the review committee for developing NASA's Multi-Object Spectrometer for James Webb Space Telescope. Dr. Yang joined Stevens in 2006, securing over forty federal grants and contracts totaling approximately \$11M, including NSF, AFOSR, ARO, and US Army funding. He is an AS/EB of Scientific Reports, Micromachines, and IEEE Sensors Journal. Dr. Yang has published over three hundred journal and conference papers and has been invited to give over a hundred keynote/invited talks at conferences, workshops, and university seminars. He was a featured Track Plenary Speaker at ASME IMECE in 2018. He was awarded, among other honors, the Lew Allen Award for Excellence at JPL in 2003, the Award for Research Excellence at Stevens in 2019 and the IEEE Technical Achievement Award (Advanced Career) from the IEEE Sensors Council in 2020.

ieeentc@iiti.ac.in

+91 93994 65903





Measuring and Making 2D Materials: From Optics to Epitaxy

EXPERT TALK

Hosted by: IEEE Sensors Council Student Branch Chapter IIT Indore

Prof. Akshay Singh
Assistant Professor
Department of Physics
Indian Institute of Science (IISc), Bengaluru



Scan to register! 11:00 AM (IST)
24 July 2023

ABSTRACT

Defects in two-dimensional transition metal dichalcogenides (2D-TMDs) are promising for photonics, single photon emission and quantum information. Low electron beam accelerating voltages (≤ 30 kV) are expected to create localized defects in 2D materials, with minimal surrounding lattice damage. Using a combination of Raman and photoluminescence spectroscopy, we study defect formation in mechanically exfoliated monolayer MoS₂ at ultralow accelerating voltages (2-5 kV). We correlate spectra changes to interplay of defect creation and doping effects due to electron beam, opening a new avenue of research using ultralow accelerating voltages for high-quality isolated defects. We also introduce a universal method to confirm layer number of 2D materials using a simple optical microscope. The layer number can be quantified using the RGB (red-green-blue) and RAW optical images. For RAW images, a single optical image can confirm layer number, greatly simplifying heterostructure preparation. I will also describe recent progress in our lab on 2D material growth performed using chemical vapour deposition, as well as fluid modelling of precursor concentration.

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IEEE PES R10 organizes a webinar on IEEE Power & Energy Society: A ladder to techno-professional advancements in power engineering

Sunday
26 Feb 2023

Speakers : 07:00 PM - 08:30 PM IST






Dr. Jessica Bian
President,
IEEE PES

Dr. K Ramakrishna
Region-10 Representative,
IEEE PES

Prof S N Singh
R10 (West),
Chapters Coordinator

Dr. K Biju
Secretary,
IEEE Kerala Section,
Former Secretary,
IEEE PES Kerala Chapter

Join @ bit.ly/R10PESWebinar

POWERING A CLIMATE SAFER FUTURE





IEEE Kalinga University Student Branch Celebrates IEEE DAY 2023

With An Invited Talk On

Hydrogen Fuel Cell Vehicle (HFCV): Revolution in Transportation

By **Dr. Syed Mujahed Hussaini**
Director, Professor, NSAKCET, Osmania University, Hyderabad
Executive Director, Plastec Engineering Co., Hyderabad
Ex-Scientist/Engineer in ISRO, Dept. of Space, Govt. of India at Sriharikota (Part of the Chandrayaan-3 Mission)




09th October 2023 04:00 P.M.
Mode of Talk: Online
Meeting Link: <https://meet.google.com/vqj-ukod-drv>





Unconventional Materials for Brain-Inspired Computing

EXPERT TALK

Hosted by: IEEE NTC STUDENT BRANCH CHAPTER IIT INDORE

Dr. Rohit Abraham John
Senior Engineer
ASM America Inc.



Scan to register! 10:00 AM (IST)
8 May 2023

ABSTRACT

We are on the cusp of a revolution in artificial intelligence (AI) and cognitive computing, with algorithmic advances that have allowed Neural Networks (NNs) to approach or even surpass the performance of humans on many tasks such as pattern-recognition, game-playing, machine translation, and more. However, the computers that run today's AI algorithms are based on the von Neumann architecture, which means that these machines are many orders of magnitude less energy-efficient than the human brain even as they pass the brain in speed or approach it in accuracy. Thus, it is becoming increasingly clear that, to build efficient cognitive computers, we need to transition to novel architectures where memory and processing are better collocated. In this context of neuromorphic computing, this talk will provide an overview on emerging materials at the active frontier of neuromorphic computing. We will discuss mixed ionic-electronic-photonics materials and device configurations in particular.

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IEEE SBC IIT Indore
&
IEEE GRSS IITI, IEEE AP-S IITI
Presents

EXPERT TALK ON

**TRANSITIONING FROM
ACADEMIA TO
INDUSTRY**



Dr. Payel Das
Founder of @PhDsofIndia


May 17, 2023(Wednesday) Time: 17:00 IST

Register here

IEEE AP-S MP Section, IEEE AP-S SBC IIT Indore and IEEE SBC IIT Indore

Expert Talk On

**LENSES FOR ELECTROMAGNETIC APPLICATIONS
DESIGN PHILOSOPHY AND LESSONS LEARNED**



DR RAVI KUMAR ARYA
Distinguished Professor
Zhongshan Institute of Changchun
University of Science and
Technology (ZICUST), China

BRIEF OVERVIEW
A lens, due to its collimation properties, is frequently used in electromagnetic applications to realize a highly directive beam. Lenses can improve antennas by realizing wide-angle scanning, beamforming, and enhanced gain. These lenses are generally designed with radially varying refractive indices that are challenging to realize and fabricate. In the past, we proposed several methods to realize such refractive indices and designed several types of lenses. The presentation will summarize the lessons from several years of experience designing different lenses for electromagnetic applications.

Date: May 09, 2023(Tuesday), Time: 14:30 IST

Online Link
In person - POD 1D 105
IIT INDORE
Contact: phd2201102002@iiti.ac.in


IEEE AP-S MP SECTION, IEEE AP-S SBC
IIT INDORE, AND IEEE SBC IIT INDORE

EXPERT TALK ON


**CIRCULARLY POLARIZED METAMATERIAL ANTENNAS
FOR ADVANCED WIRELESS APPLICATIONS**

DATE - 20 MAY 2023. TIME - 16:00 IST

JOIN MEETING



PASSWORD
IEEEAPS123



DR. MOHAMMAD AMEEN
POSTDOCTORAL RESEARCH FELLOW
DEPARTMENT OF ELECTRICAL AND
COMPUTER ENGINEERING
NATIONAL UNIVERSITY OF SINGAPORE

Contact: phd1901102011@iiti.ac.in

IEEE AP-S MP SECTION, IEEE AP-S SBC
IIT INDORE, AND IEEE SBC IIT INDORE

EXPERT TALK ON

**SYNTHETIC APERTURE RADAR (SAR) SIGNAL PROCESSING:
RECENT ADVANCES AND APPLICATIONS**

SPEAKER



DR. AJEET KUMAR
POST-DOCTORAL
(RESEARCHER LEVEL IV)
CNIT - NATIONAL LABORATORY OF
RADAR AND SURVEILLANCE SYSTEMS
(RASS), ITALY.

DATE - 17 JUNE 2023,
TIME - 17:00 IST

SCAN TO JOIN



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phd1901102011@iiti.ac.in






IEEE AP-S MP SECTION, IEEE AP-S SBC IIT INDORE, AND IEEE SBC IIT INDORE

EXPERT TALK ON

INTRODUCTION TO DESIGN AND MEASUREMENT TECHNIQUES FOR BAW FILTERS FOR STATE-OF-THE-ART RFFES

DATE - 27 MAY 2023, TIME - 18:00 IST

JOIN MEETING



PASSWORD
IEEEAPS123



DR. ABHISHEK SAHU
SR. FILTER DESIGN ENGINEER
ADVANCED CELLULAR ENGINEERING DIVISION
QORVO US INC., GREENSBORO
Contact: phd1901102011@iiti.ac.in






IEEE AP-S MP SECTION, IEEE AP-S SBC IIT INDORE, AND IEEE SB IIT INDORE

EXPERT TALK ON

MOBILE NETWORKING REVOLUTION: UNLEASHING THE POWER OF 2G, 3G, 4G, AND BEYOND

SPEAKER

DATE - 01 JULY 2023, TIME - 16:00 IST



MR. CHANCHAL CHAKRABORTY
CEO, ATM TOWERS INDIA
(A SUBSIDIARY OF
ATM A/S, DEMARK).

SCAN TO JOIN



PASSWORD : IEEEAPS123

Contact :
phd1901102011@iiti.ac.in



MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE
COMPUTER SCIENCE & ENGINEERING DEPARTMENT
IN ASSOCIATION WITH
IEEE STUDENT CHAPTER & IEEE COMPUTER SOCIETY
IS ORGANIZING A



SEMINAR

ON

**"UNLEASHING THE POWER OF DATA:
THE EXCITING WORLD OF DATA ANALYTICS"**



MR. ANUJ PRATAP SINGH
Chartered Engineer, Aerospace
IISC Bangalore
Heading Azakti Energy

SPEAKER

05 JUNE, 2023 (MONDAY)
3:00PM - 5:00PM
Seminar Hall 7

REGISTRATION LINK
<https://bit.ly/3oFHdIP>

CONVENER:
DR. MANISH DIXIT
(PROFESSOR & HEAD)

COORDINATOR:
AASHI SINGH BHADOURIA
(ASSISTANT PROFESSOR)

CERTIFICATE TO ALL PARTICIPANTS

HUMANITARIAN TECHNOLOGY ACTIVITIES



Smart Garbage Monitoring System

Best out of waste workshop



Scientific Toy Workshop



THANK YOU FOR AN INCREDIBLE YEAR!

Here's to another year of innovation, impact, and inspiration.
IEEE Madhya Pradesh Section is proud of its achievements and
looks forward to continued excellence in 2024.

Stay tuned for upcoming updates and event announcements!