ANNOUNCING ISA PUNE's NEXT EVENT!

IIOT CONFERENCE

4th Edition **JANUARY 19, 2024**

Block your date

**MACHINES WORK
SYSTEM MONITORS
YOU TAKE DECISIONS**

VISION

CREATE A BETTER WORLD THROUGH AUTOMATION

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- IIOT Conference announcement

Gurmeet S Anand - President

Vijay Karthik - Secretary

WELCOME

MR. MARTY BINCE

President - ISA- International

Friday, 15th September

info@isa-pune.org

It gives me great pleasure to share a few words with you for this Quarter's Newsletter! As we head towards the start of the festival season in India, we too at ISA Pune have a lot to celebrate. We started the new board's term with a bang, celebrating International Automation Professionals Day #IAPD #AutoProDay on 28th April (the founding day of ISA, way back in 1945) with a Process Automation Conference themed "Driving Manufacturing Excellence Through Process Automation" followed by honouring achievers from within the Section in different categories. Read more about this in special coverage of the event in this edition.

In July, the good news continued! 9 students from Cummins College of Engineering for Women, and VIT, from our Section, were selected for ISA Foundation's Scholarships Awards, and Division Awards. We are proud that our Section is the **highest award winner** among students, and the success can be attributed to the excellent mentoring and guidance by the respective Faculty Advisors and the hard work and sincerity of the students! Keep it up!

And that was not all! ISA Pune Section bagged the **Section Excellence Award** for its all-around activities, section health, member engagement, growth and retention etc., throughout the last year! Thank you all for your active involvement and support! Individually, I got honored with ISA's **Volunteer Leader of the Year Award!** I am really humbled and elated at the same time, and am thankful to ISA for this recognition, which includes an invitation to attend their Annual Leadership Conference and Awards Gala Night, at Colorado Springs in October!

Our Cybersecurity Training in June 2023. as per ISA/IEC-62443 for part IC32 & IC32 was a huge success, with 22 enrollments. The course, after clearing the online exam, certifies the attendees as Cyber Security Fundamentals Specialist (IC32) and Cyber Security Risk Assessment Specialist (IC33). The final 2-part course will be in December, for IC34 & IC37, on completing which participants are certified as Cyber Security Experts.

Our Section's monthly TechTalks were on interesting and relevant topics on Flow Measurements with Cloud Storage Records, Sustainability, and A Case Study on Ransomware Attack in a Pharma Unit, with its complete life cycle. These were well received by participants and can be viewed on our YouTube channel, or links on our website *www.isa-pune.org*. We also organized an industry visit to Keetronics, and are having ongoing discussions with COEP on ways to collaborate and offer our expertise.

We had an in-person Monthly Board Meeting after a while, and it was such fun that we vowed meet in-person every month! Remember, it is on the second Sunday of the month usually, and announced through ISA Connect emails as well on our closed group. We also decided to have social outings with families, look out for the announcements! Coming up later are our 4th IIOT Conference in January, and a Student-led Conference in February 2023!

ISA Pune also had its first ever media interaction with News Bharati, an online news portal, where we held forth on ISA, its activities. Look it up to know more! I am bubbling over with enthusiasm and plans for programmes, events, outings, visits, training, connecting and so much more! For this I look forward to your active engagement and cooperation and request you to come forth with your suggestions on the content you expect from ISA! You can call me or write me at president@isa-pune.org!

In the end, remember, it is all about daily, consistent action! "Success is the sum of small efforts, repeated day-in and day-out." — Robert Collier

Gurmeet S Anand - President - ISA Pune Section
Founder CEO – HEMKUND Automation

We are extremely pleased and proud to announce that **ISA Pune Section** has been chosen by International Society of Automation (ISA) to receive the **Section Excellence Award.** Kudos to H. S. Pansare President ISAP (2022) who led the Section exceptionally in last two years and Gurmeet Anand current President who is continuing the good work in 2023.

This calls for double celebrations as **Volunteer Leader of the Year** has been bagged by current President **Gurmeet Anand!**

The awards will be presented at ISA's Gala Celebration on Thursday, 5th October in Colorado Springs, USA during the Automation & Leadership Conference Awards Gala evening where the winners are invited to attend as guests of honor, with complimentary tickets to the event.

Congratulations to Team ISA Pune and it's Leadership!

We are excited to keep our date with International Society of Automation President Mr Marty Bince who is visiting India and is scheduled to visit ISA Pune Section on 15th September!

ISA has a corporate Engagement Program and is renowned for its Cyber-security IS:62443 standard-based training to manufacturing corporate,governmental bodies and I.T. industry. We are looking forward with anticipation to Marty's visit wherein he will introduce this program and interact select industry leaders, and meet ISA Pune members.

Welcome, Marty!

LOOK FORWARD TO MEETING YOU, MARTY!

ISA Pune Section celebrated #autoproday on 28th April '23

WITH A PROCESS AUTOMATION CONFERENCE THEMED:

'Driving Manufacturing Excellence Through Process Automation'

We at ISA Pune celebrated **International Automation Professionals Day**, in a grand manner by organizing a **Process Automation Conference and Exhibition** themed **"Driving Manufacturing Excellence Through Process Automation"** at a 5-star hotel and convention centre. It was a huge success with over 150 attendee delegates from Industrial Automation users, Manufacturing Cos, System Integrators, and OEMs.

ISA which was **founded on 28th April 1945**, celebrates International Automation Professionals Day to celebrate our founders' legacies, and their contributions to the industry and thanks automation users, vendors, consultants, volunteers, staff, and the entire automation community who help Create a Better World Through Automation.

The highlight of the show was an address by the **Chief Guest Dr. Sudhir Agashe**, who has recently assumed the position of **Vice Chancellor, COEP Technological University**. In his address, he urged ISA Pune to connect with COEP in an industry-academia collaboration, as the engineering colleges produce engineers, who are the product, through which automation systems are designed, manufactured, and run. He also briefed the audience on COEP's upcoming new facilities, where industry collaboration is a must, and ISA can play a major role here.

The Chief Guest Dr. Agashe and ISA Board members led by Mr. Gurmeet S. Anand – President ISA Pune Section, released ISA's special **souvenir newsletter** on the occasion.

Papers were presented at the conference by well-known speakers, experts in their field, with different perspectives from end-users, automation equipment manufacturers, EPC contractors etc. and were well received by the delegates. Presentations were also made by **Endress+Hauser, DelVal Flow Controls, San Telequip and RedLion Controls** who talked in various aspects of Measurement, Control, Connectivity etc. and showcased their latest technologies at the Conference.

The evening session included an **Honours and Awards** function, where ISA Pune awarded its achiever members, including **Entrepreneurial Excellence Award** awarded to **Mr. Uday Banerjee** of Vareli Tecnac Pvt. Ltd., and **Product Innovation Award** to **Mr. Rajendra Nagaonkar** of Electronet Equipments.

ISA Pune also has ISA Student Sections from 9 engineering colleges affiliated to it. From these, **Dr. D.Y. Patil Institute of Technology, Pimpri** was awarded as the **Best Student Section**, and **Dr. Swati Madhe of Cummins College of Engineering for Women** was felicitated for her exceptional efforts in growing and mentoring the Student Sections.

Gurmeet S Anand - President - ISA Pune Section

AUTOMATION CONFERENCE 2023 – 'Driving Manufacturing Excellence Through Process Automation'

Dr. Sudhir Agashe
VC - COEP Univ.

Mr. Kiran Satre
CIPLA Ltd.

Mr.Gajanan Khot
Aquachill Systems

Mr. Uppal (ISAP)
San Telequip

Mr. Ashok Shinde
Red Lion Controls

Mr. Kiran Satre - CIPLA

Mr. Ashok Shinde - Red Lion

Mr.Rajiv Doshetty - E+H

Mr. Khot - Aquachill

Mr.Ravindra Patil - DelVal

REDLION Team

DELVAL Team

Mr. Ravindra

San Tele Team

Mr. Doshetty - E+H

EC Team team with Chief Guest Dr. Agashe

With Student Section Excellence Awardees

With Sponsors Endress+Hauser

EC team discussing a point

A lighter moment

Process Automation Conference- Awards

Gurmeet Anand
President

Vijay Karthik
Secretary

Mr. Vinod Joshi
Program Chair

Sandeep Kulkarni
Education Chair

Dileep Miskin
Division Liaison

VIT - Student Section
Excellence award

Dr. Swati Madhe - CCOEW
Mentor Excellence Award

ELECTRONET
Product Excellence Award

VARELI TECNAC
Excellence in Entrepreneurship

Industry visits in last quarter

Industry Visit by ISA Pune to **Keetronics**

Visits to ISA Members for mutual business

Visits to ISA Members establishments promote bonding and sharing for mutual business interests

TO CONDUCT 90 MINUTES SPONSORED WEBINAR @ RS.15000 + GST

Effortless Consistency – Single Source for Engineering and Operation

>> Deadlines are urgent, suppliers must be informed and checked, and numerous disciplines must be coordinated, from the initial simulation scenarios via P&ID and detailed engineering to commissioning. Who is at what status? Is all data consistent? Is the plant documentation promptly complete and correct?

>> Engineering Base allows to create a digital data model, the „Digital Twin", that covers the complete plant:
- Physical
- Local
- Functional
- Dynamic

For the plant engineering complying to Industry 4.0 concepts.

Engineering Base (EB) provides the answers, as the central data model of AUCOTEC's platform ensures cross-disciplinary plant development from the initial idea to the finest detail. Each object exists only once in it, and diagrams, datasheets and lists are only different representations of the same object. All departments edit and detail it from their point of view, and each addition is directly visible to all, without interfaces, data transfers and transmission errors. This gives rise naturally to consistency.

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ISA has 16 Technical Divisions and you can a a part as many as you want at no cost! As Section-Division Liaison chair from Pune Section I continue to share details of a different Division and this time, we shall cover ISA's Mining and Metals Division.

DIVISION COVERAGE : MINING AND METALS DIVISION:

The Mining & Metals Industries Division (MMID) is one of ISA Technical Divisions. Its goal is to support and advance its members who are working and/or interested in the mining and metal industries. MMID focuses on leveraging automation functionality and technology solutions to enhance mining processes and metal production.

Who is best served by this division? Professionals concerned with economically and environmentally sound practices as related to the extraction of metal ores, coal, cement, sand, gravel, and other minerals and the handling, separation, processing, fabrication, related processes, and research and development for the production of finished mineral or metal products. It also covers the Iron and Steel Making industry, Aluminum Processing and other light metals, and the production and manufacturing of metal products.

Become involved in helping ISA provide global leadership in the USA and other international regulatory bodies. In this capacity, you can provide valuable knowledge and input on cutting-edge and disruptive technologies regarding instrumentation, analysis automation, equipment and system validation, and testing for regulatory compliance.

ISA's technical divisions are open only to ISA members. Covering a wide variety of industries and technologies, members are encouraged to join as many divisions as they choose. Through your division, you will:

- Build a network of peers working in similar settings
- Receive access to the division community and communications
- Participate in live, online technical discussions in ISA Connect Live
- Learn in ISA OnPoint technical presentations
- Discover opportunities to gain leadership and technical expertise through the division board or writing technical content

Join us if you want to learn, contribute, network, and help build the Division to create a better world through automation.

1	Aerospace & TMD
2	Analysis Division
3	ACARD
4	Automation Project Mgt & Delivery Division
5	Building Automation Systems Division
6	CHEMPID
7	Construction & Design Division
8	Education and Research Division
9	Food and Pharma Industry Division
10	Mining and Metals
11	PMCD- Process Meas. & Control
12	Power Industry
13	Pulp and Paper Industry Division
14	Safety and Security
15	Smart Manufacturing and IIOT
16	Water and Waste Water Division

Dileep Miskin
Section-Division Liaison Chair – ISA Pune Section

MR. SHRIPAD KULKARNI - LEAD- INNOVATION MANAGEMENT - FORBES MARSHALL
OPTIMIZING ENERGY EFFICIENCY THROUGH PROCESS AUTOMATION & DATA ANALYTICS 09.06.2023

The aspect of how process optimization can be achieved through automation & controls based on data analytics through various case studies.

His field of work comprises combustion, heat transfer, gas dynamics, and fluid mechanics. Mr. Kulkarni has 3 patents and 20+ Journal and conference papers to his credit on process audit & data analytics. He was awarded as "Young and an emerging leader in energy efficiency for 2020 by CII at the National level."He also has won the National award for the development of the "Most energy efficient innovative product award" twice in 2012 for ECR burners and in 2020 for a process-centric Machine Learning based control system. He has varied hands-on experience on Burners/Boilers for process industry boilers over a span of 15 years with national and international exposure.

MR. AJAY PHATAK - TRANS VITALS
TRUSTEE – ECOLOGICAL SOCIETY OF INDIA
TOPIC : SUSTAINABILITY 01.07.2023

"Our day-to-day decisions drive the use of natural resources and the side effects of their use. Sustainability is an outcome of our having made these decisions better. This means that every individual must understand how these good decisions could be made. We must wonder why has the word **'SUSTAINABILITY'** taken the centre stage today. As professionals we carry immense responsibility for understanding and action to see us and our future generations alike sustain on this planet" So, to aware our members to design more sustainable products we had a tech talk on this topic with his expertise on Automation industry for a long time.

MR. RAVINDRA GOTAVADE - TETRAPAK
CYBER RANSOMWARE CASE STUDY IN PHARMA SECTOR – 29.07.2023

Mr Ravindra an OT Security Architect and is IEC 62443 Cyber Security Expert. He is CISSP/ CISM/CCSK certified delivered an excellent session covering key aspects.
- What happened, a flash-back/recap, existing gaps, brief of Cyber Forensics Analysis
- Plugging existing gaps, lessons learnt, key takeaways followed by a Q&A session.
- The session will be highly illuminating as it is based on an actual case study and underscores the relevance of IS:62443 Cybersecurity Training Courses conducted by ISA Pune.

For Feedback, Queries, Ad Space, Articles, Events & Sponsoring .,
info@isa-pune.org

CYBER SECURITY TRAINING

ISA Pune section arranged an ISA/IEC 62443-based, Cybersecurity Training Course IC32+IC33 in the month of June 2023. Period: 26th to 30th June 2023. There was an overwhelming response from participants all over India. Participants from different industry sectors took the training and are immensely benefitted. This batch of the training was the biggest batch so far, in which 24 participants from all over India attended the training. Many participants could not be accommodated since it was a full house.

Sandeep Kulkarni
Education Chair

In view of the increased enthusiasm and demand, we are planning to have an extra training batch for IC32+IC33 in 2023 itself and shall annouce the dates shortly. **Additionally**, ISA Pune section has scheduled IC34+IC37 course in December 2023 this year. On Completion of all four training courses one is recognized as Cyber security Expert.

ISA Pune has so far conducted five Training batches and more than 150 participants have been benefitted in their quest to become certified Cyber security specialists. This is immensely helping industry to protect control , network and production systems from the onslaught of cyber attacks.

For more details please write to ISA Pune at training@isa-pune.org

ABOUT ISA

The International Society of Automation (www.isa.org) is a nonprofit professional association that sets the standard for those who apply engineering and technology to improve the management, safety, and cybersecurity of modern automation and control systems used across industry and critical infrastructure. Founded in 1945, ISA develops widely used global standards; certifies industry professionals; provides education and training; publishes books and technical articles; hosts conferences and exhibits; and provides networking and career development programs for its professional members and 350,000 customers around the world.

ISA HISTORY

ISA officially was born as the Instrument Society of America on 28 April 1945, in Pittsburgh, Pennsylvania, USA. It was the brainchild of Richard Rimbach of the Instruments Publishing Company and grew out of the desire of 18 local instrument societies to form a national organization. Rimbach is recognized as the founder of ISA.

Albert F. Sperry, chairman of Panelit Corporation, became ISA's first president in 1946. In that same year, the Society held its first conference and exhibit in Pittsburgh. The first standard, RP 5.1 Instrument Flow Plan Symbols, followed in 1949, and the first journal, which eventually became today's InTech, was published in 1954.

ISA PUNE Student section colleges bag ISA Scholarships!

We are happy to inform the following students have been awarded Scholarships worth 27,000$ from ISA for 2023!

VIT College, Pune
Mr. Swapnil Mane – 3,000 US$
Mr. Atharva Kharkar – 3,000 US$
Mr. Rohit Gavali – 3,000 US$
Mr. Atharva Jaid – 3,000 US$
Ms. Shruthi Rane – 3,000 US$

Cummins College, Pune
Ms. Anwesha Sen – 3,000 US$
Ms. Indraja Patil – 3,000 US$
Ms. Konkana Dutta – 3,000 US$
Ms. Anisha Jain – 3,000 US$

ISA Pune has Student Sections in following colleges:

1. AISSMS Institute of Information Tech: Dr. Vandana Kale
2. College of Engineering, Pune Technological University : Prof. Sapna Korde
3. Cummins College of Engineering for Women : Dr. Swati Madhe
4. D.Y.Patil College of Engineering, Akurdi : Dr. Bhausaheb Musmade
5. DR D.Y. Patil Institute of Technology, Pimpri : Prof. Arun Sonar
6. MIT Academy of Engineering : Prof. Shilpa Rudrawar
7. Pravara Rural Engineering College: Dr. C.B. Kadu
8. Shri Guru Gobind Singhji Institute of Engineering and Technology : Dr. Rajshree Sarwadnya
9. Vishwakarma Institute of Technology, Pune : Prof. Pramod Kanjalkar

A student section is a group of student members formed in colleges, universities, institutions, and similarly organized training centers. Each student section operates as an official ISA affiliate per the charter agreement that defines the relationship between the Society and the student section. Student sections exist to support the mission and vision of the Society, governed by and subject to all policies and procedures set by ISA.

Student sections are operated for educational purposes to promote the following:

- *An increased knowledge of the greater automation industry*
- *A greater understanding of the contributions of those in the automation industry*
- *Mentoring and Encouraging students as they prepare for careers in the automation industry*

BENEFITS:

Technical Division Memberships
Get updates about the latest automation technologies through :
- *Digital InTech and Automation Weekly e-newsletter*
- *View ISA standards online*
- *Free access to pre-recorded web seminars*
- *Free access to ISA technical papers library*

ISA Connect Program

ISA Scholarships
- *Educational Foundation Scholarship*
- *ISA Division Scholarship*
- *ISA Executive Board Scholarship*

Automatic Controls and Robotics Division (ACARD)
- *Fieper Project*

Dr Swati Madhe
ISA Student Section Liaison

ISA PUNE SECTION SPONSORS COLLEGES VISIT TO AUTOMATION EXPO 2023!

ISA Pune Section is 100% committed to it's Student member activities and supports all ponsored Guided tour to 2023 AUTOMATION Expo at BIEC Mumbai by organising Tranportaion through 3 Different buses benefitting over 80 Students and Faculty advisors from MKSSS's Cummins College of Engg. for Women, VIT and AISSMS. Sharing a few pics of the happy students who benefitted from this trip!

How can other colleges join?
Email us on **info@isa-pune.org** and we will guide for chartering and forming a Student Section!

MAJOR EVENTS IN ISA PUNE STUDENT SECTIONS

1) Students of Cummins College of Engineering, Pune, and D. Y. Patil Institute of Technology, volunteered at ISA Pune Section's **"PROCESS AUTOMATION CONFERENCE"**
2. D.Y. Patil Institute of Technology awarded for **ISA Pune's Student Section Excellence.**
3. Dr. Swati Madhe, Student Section Liaison awarded **ISA Pune's Student Mentor Excellence.**
4. **CCOEW ISA** conducted a Course on **Industrial Networking Fundamentals** on 20 & 21st April
5. **VIT** conducted a workshop by a ROS expert for all colleges of India which includes many like Walchand for more than 60 students from various engineering domains on 19th April 2023
6. On 20th April, 2023 **VIT** conducted **Tech Expo**. Event filled with various projects from small scale to large scale including electronics, automation and many more.
7. Three ISA Pune Student Sections, SGGSIET, CCOEW and VIT participated in ISA Automation Games (IAG – 2023) on 8th and 9th September 2023, and **VIT Pune is one of the winners!!**

SECRETARY

In the world of Digital Transformation, one's success is based on **"How well-updated"** and **"Connected to the industry"** one belongs to. Following the Industrial trend, Constant upgradation of skill sets and knowledge of the Industry helps one make **"Informed Decisions"**. Thus, **"Networking"** plays a major role in connecting with peers in the industry. **ISA** the epitome of the Automation industry is a treasure of Knowledge, a Network, and the Gateway to the Industry Standards, Certifications, and Training of the Automation Domain.

I am so glad to be part of the Pune Section – A Vibrant section, Open to ideas, Collaboration, and Building initiatives toward the Automation community.

Vijay Karthik
Secretary – ISA Pune Section
Director – METALASER – ESPOIR Electric Co

NEWSLETTER CHAIR

It is with great pleasure that I present you this edition of our newsletter. ISA Pune has achieved great successes and the awards speak for themself. In today's world, the significance of automation holds a lot of importance. It is imperative to delve into the depths of this transformative topic of automation, and ISA plays an important role in this transformative journey shaping industries and building a strong network of experts in the field of automation. I take pride in bringing forth the content from the successfully executed events with experts, students and the interaction between them to enhance the young generation to build a strong future in the world of automation influencing manufacturing, logistics, and all other industry verticals.

ISA is a global community where experts, professionals, and enthusiasts come together to share knowledge and exchange ideas, helping to shape the future of automation. Our conferences, webinars, and networking events provide a perfect platform to connect to like-minded individuals who share our passion for automation excellence. Come join us to make a difference.

Rajalakshmi Hegde
Newsletter Chair – ISA Pune

Be a part of ISA Pune activities: participate, volunteer, lead!

- Use ISA Connect, Whatsapp group, Network, Update your profile & Earn your Badges
- Subscribe to your interested ISA DIVISION
- Attend all Tech Talk shows, Webinars, Evnts & Conferences
- Paricipate in Monthly Meeting
- Volunteer to Working Committee
- Access technical library of ISA
- Interact with Student sections & ISA Affiliated Colleges
- Enrol to relavant Certification courses
- Take part in election, surveys & community / division queries
- Refer a member & help the society
- Contribute articles, contents & advertiste in ISA Newsletter

DIGITIZATION / AUTOMATION OF FUEL MANAGEMENT SYSTEMS FOR MINING & CONSTRUCTION INDUSTRY

In the Mining sector, Fuel is one of a fleet operator's biggest pain points. Being the second largest input cost, after labor costs, fuel seems to be an ever-flowing source of stress and loss of money, and it is — **if you don't control it.**

Solution: A fuel management system uses data from different sources to create comprehensive analytics. The real-time monitoring of fuel level by capacitance-type fuel sensors in each fleet provides end-to-end transparency and better control over refueling operations and brings clear visibility on overall expenditure. This article is based on the recent successful implementation of FMS in a few of the mines in the eastern part of India.

The solution works on these basic principals

- *Automatic Identification of the vehicle / Asset.*
- *Accurate measurement of the fuel dispensed with the highest accuracy.*
- *Automatic recording of the fuelling data.*
- *Wireless data transfer from a remote location.*
- *Accurate MIS reports for analysis.*

Uday Bannerjee
E.D. – Vareli Tecnac Pvt. Ltd
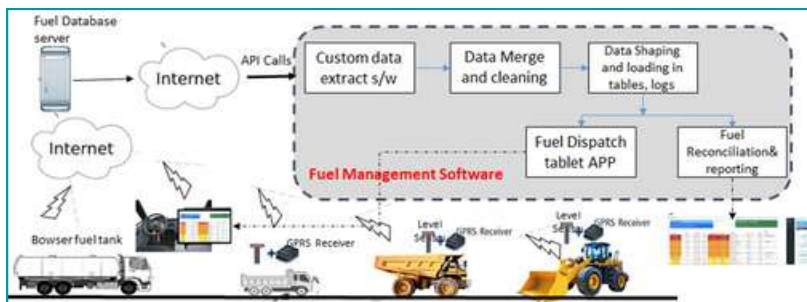**ISA Pune Member**

The solution includes the mobile APP for mobile fuel bowser operators, to monitor the fuel level of the assets and includes the location of each fleet/asset. A Web UI is given to the operator monitor which shows "low fuel level" assets.

The Bowser operator navigates to reach those asset locations using the Web APP. He then refills the asset tank after reaching the location. The analytical server collects the information on dispensing records from Fuel dispensing systems through API. It will match filling records between fuel bowser and assets, automatic identification and authorization of vehicles to be fuelled. It resulted in accurate measurement of fuel dispensed and safe delivery.

A key goal of this project was to link this real-time operational technology (OT) with the client's IT infrastructure such as ERPs and build seamless data exchanges via APIs with components of IOT systems such as GPS trackers, capacitive fuel sensors and digital fuel dispensing systems. Everything was to be delivered as a secure cloud-hosted system that gave transactional fluidity and systemic rigour to the field operations team. Additionally, it offered powerful exception-based reporting to top management.

System Reports provided:

- *Real-Time Fuel Monitoring: Live fuel gauge updates every 5 to 10 minutes*
- *Equipment Fuel Analysis: Time charts of equipment fuel tank levels with colour-coded fuel burn rate (LPH) segments*
- *Performance Leader board: vehicles stack ranking based on LPH, KMPL, Hours, and Productivity*
- *Fuel Inventory Management: Opening. closing balances of fuel stock in storage tanks, receipts and issuance logs.*
- *Fuel Consumption Reports: Daily fuel consumption and machine hours logs.*
- *Vehicle KPI analysis: Key parameters reported are initial and final tank levels, machine run instances, refuelling details, consumption rates, runtime hours, total distance, and mileage.*
- *Project Status and User Management: Live project status tracker with installed vs. live sensors.*
- *Fuel Dispensing Audit: comparison of nozzle-based fuel dispensing vs. fuel rod receipt. Triangulation audits for decantation, top loading, and tank volume.*
- *Data Export and ETL Health: ETL health tracking, showing total database transactions per hour*

Advantage of implementing intelligent FMS

- 100% transparency in fuelling process
- Refuelling only for authorized vehicle
- Fuelling data monitoring – Remote location.
- 100% accountability of fuel dispensed.
- To set goals on the fuel efficiency of the vehicle

Machine learning algorithms continually optimise deliveries - bringing down waiting time, cutting down unnecessary refuelling trips and optimising fuel inventory in a just in time approach. The peer to peer self-learning system removes supervisory oversight, dramatically improving people and machine productivity. I am highlighting one important module which stands out from the remaining module and probably implemented first time in India, the Fuel Monitor Module: The difference of any normal Fuel Management Systems and here is Bowser operator monitoring systems. The main module is refuelling automation system where the system detects geo locations, fuel levels and condition based inputs from IOT sensors placed on machinery and fuel trucks. I am highlighting one important module which stands out from the remaining module and probably implemented first time in India, the Fuel Monitor Module: The difference of any normal Fuel Management Systems and here is Bowser operator monitoring systems. The main module is refuelling automation system where the system detects geo locations, fuel levels and condition based inputs from IOT sensors placed on machinery and fuel trucks.

ISA Pune section has recently participated in an exclusive interview by a popular Media House **"NewsBharati"** to create awareness about Industrial associations and their important activities, with coverage by **Mr. Sameer Khaladkar.**

Every industrial association or society helps to develop a better industrial community. Therefore, a worldwide famous organization called the International Society of Automation or ISA which has been playing a vital role in taking the organization miles ahead is here with us. The Volunteer Members of ISA Pune Section, who have been playing a vital role in taking the organization miles ahead, have discussed various areas of the organization where they have been interacting with an entire ecosystem.

Mr. Karam Rehani who is a Senior Life member of ISA explained the history of ISA and its benefits to every industrialist around the world.

Ms. Sujata Tilak Board Member of ISA Global explained the importance of ISA and its role due to ever-expanding automation needs in operations other than manufacturing industries. Further, she also explained explains the structure of ISA as an organization. It is pertinent to mention that ISA has developed 150 worldwide standards related to automation. E.g. standards for cyber security IEC 62443, ISA 95 for integration of automation and enterprise. She emphasized ISA training and certifications on various topics. She further explained how ISA can be helpful to startups at the local Section level, District level, and Global level. All the panelists also shared and discussed how ISA can be helpful to industries, academia, and startups is discussed.

Mr. H S Pansare – Current President of ISA Pune Section elaborated benefits of being an ISA member, what are the takeaways, and how he successfully grew membership by 200% in his tenure. Besides, scholarships earned by students from ISA are also an important aspect to know about. ISA Pune Section's standing amongst all sections worldwide, recognitions, and awards coming to the section and members are very interesting to know.

Mr. Gurmeet Singh Anand – Present President of ISA Pune Section talks about making the Pune Section vibrant by way of inclusivity of all professional members and students.Student competitions, paper publications, and conferences to encourage knowledge exchange and bonding among the members.

Mr. Satish Pathak founder of a tech innovation startup and membership chair of the ISA Pune section emphasizes the importance of the ISA Global Innovation Award, and how it helps evaluate the potential of respective tech innovation in the field of industrial automation. He further explained the importance of being a member of ISA and how to go about it.

For Feedback, Queries, Ad Space, Articles, Events & Sponsoring .,
info@isa-pune.org

Initiative by

SATISH PATHAK - ISA PUNE
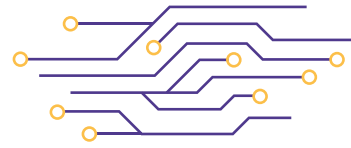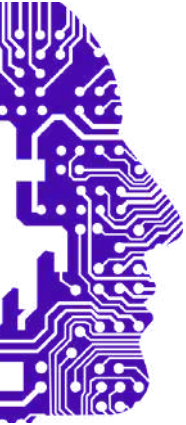Membership Chair
Board member ISA ACARD Div.

IIOT CONFERENCE

International Society of Automation
Pune Section

For Registration
Sponsoring &
Exhibition

info@isa-pune.org

19TH JANUARY 2024! CONTACT US FOR DETAILS!

MEMBER'S TESTIMONIAL

Being a member of the International Society of Automation (ISA), Pune Chapter, has been an enriching journey. The chapter's dedication to promoting automation and fostering professional development is truly commendable. Through their insightful workshops, seminars, and networking events, I've gained valuable industry insights and connected with experts who share my passion. The ISA Pune Chapter's commitment to creating a vibrant community of automation professionals has been instrumental in my own growth and learning. I'm proud to be a part of such an impactful and forward-thinking organization.I am thankful of ISA board members for thier efforts for making this chapter vibrant across the globe"

Shruti Sakorikar - Member ISA Pune
Head - Automation Projects, ISOBEX

POWER OF ISA CONNECT

An email from a new ISA Pune member who replied to our welcome message shows the versatility **of ISA Connect**. It is a powerful tool exclusively for ISA Members through which you can reach out to your Section Members or members throughout the globe by sending them a connect request! It also connects you to ISA's online and in-person events, conferences, training, white papers etc. **Message (edited & members name not disclosed for reasons of privacy)**

Thank you for the warm welcome to the Pune Section of ISA. I am truly excited to become a part of this vibrant community and contribute to its initiatives. I am thrilled to hear about the various activities and events that the Pune Section has been organizing over the past year. The TechTalks, monthly Section meetings, and the Automation ProDay Celebrations-cum-Process Automation Conference all sound like fantastic opportunities for learning and networking. I am eagerly looking forward to attending these events and gaining insights from industry experts, and also attend the upcoming visit by global ISA President Mr. Marty Bince on 7th September. It's great to know that the Pune Section has received Membership, Section Leader Excellence & Section Excellence awards .

This demonstrates the dedication and hard work put in by the members and leadership. I'm eager to be an active member of this community and participate in its events!