



Q-ZINE

Bimonthly Newsletter

National Institution for Quality & Reliability Chennai Branch

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NOV - DEC 2016



National President Speaks...

First of all, I would like to congratulate the team of NIQR Chennai Branch for their excellent time management to bring out this Newsletter Right on Time Every Time.

This year the Quality Month, November 2016 saw a series of major initiatives by the Team NIQR. Keeping pace with Industry 4.0, an ambitious program titled "QFI 4.0" (Quality for Industry 4.0) has been launched to promote Digital Quality practices across the country for manufacturing as well as service sector. I wish this program a grand success

in meeting the mammoth target of covering over 20,000 persons in one year. Six Sigma Competition, Green Belt training, Quality Month lectures at M/S Ashok Leyland Ltd., KRAMSKI Stamping and Molding India Pvt. Ltd., & Dwaraka Engineers by NIQRians were amongst the other highlights of the Quality Month.

Sudden demise of our beloved Chief Minister of Tamilnadu is a huge loss to the National leadership. We all pray to the almighty for her soul to rest in peace.

While more active participation is visible from our existing Student Chapters, we have recently added a new Student Chapter at Jayalakshmi Institute of Technology at Thoppur near Salem. I am sure that with usual zeal to excel, our institution will spread wings globally.

Wish you all a Happy & Prosperous New Year
P. K. AGGARWAL

From Chairman...



Dear NIQRians

My Advance Happy New Year Wishes. Let 2017 bring all prosperity and wellness for all of us.

Industry 4.0, Smart Manufacturing and Digitalization are catching up very fast in Indian Economy, especially in the manufacturing space. Indian Industry needs to get started and to get

aligned to smart ways of manufacturing for it to sharpen its competitive edge. Not adopting to Smart ways of doing things will very quickly erode the competitive edge of the Indian Industry.

I feel we at NIQR have this moral responsibility to equip our Indian Industry with the necessary knowledge, the know-how about Industry 4.0 and Smart Manufacturing. More importantly, we must train the Industry on how to do this digital transformation frugally as the need for this digital transformation will become inevitable if not immediately but definitely in the long run. As you will agree with me, Innovations to become frugal, need lot of ideas and lot more brains! To get as much brains to think about frugal digital transformation, we need to take this message to as many hearts in India and activate their brains too!..

Towards the above, we have launched our Mission 2020 and had our first program on Quality for Industry 4.0. This event had an overwhelming response with 167 participants. But this is just a baby step towards touching 20000 hearts with the QFI message before 19th Nov 2017. At this point in time, I feel more optimistic about achieving this Mission 2020 and this optimism stems from the participation / energy levels of the NIQRians, which was exhibited during our first program. I thank everyone for this.

If every one of the NIQR fraternity exhibits the same level of enthusiasm and commitment then we can surely surpass the Mission targets. I am very confident, with all of us participating, we can convert this Mission into a Movement and we can certainly bring out a Desi Version of Industry 4.0

Let us start this Movement for the social cause, Let us enable India to transform digitally but frugally...

Request your Participation....

Regards,
K MANIKANDAN



From Secretary...

We had an eventful year 2016 with plenty of action in all fronts. The high point of all was the smooth conducting of the 15th National Convention in June 2016 organised by Chennai Branch which has set new benchmarks in terms of delegates and high tech arrangements in the auditorium; the jewel on the crown being best wishes message from our Prime Minister.

We have sustained the standards set last year in terms of Newsletters and Lecture Meetings. On the education front, we have started our branch's 9th & 10th Student Chapters and jointly

conducted a National Conference in Saveetha University.

We are planning a joint National Conference with SRM University in February 2017 with the theme "Industry 4.0 Way forward towards next orbit".

All these were possible with support and wishes from all of you and we look forward to your continued support in the future.

Wishing all of you and your family members a HAPPY AND PROSPEROUS NEW YEAR 2017.

C V GOWRI SANKAR



Prof. Yoji Akao



Born on 1928, Dr. Yoji Akao is the developer of Hoshin Kanri- a strategic planning methodology (Policy Deployment), the significant business improvement practice to stimulate innovation and drive competitive breakthroughs with derivative and challenging action plans.

With the late Shigeru Mizuno, he developed Quality Function Deployment (a group decision making technique). QFD is a quality methodology that transforms customer requirements for design of a product, service, or process into the component of design for that product and further translation of the quality functions into specifications for part and process design.

Akao received a Ph.D. in 1964 from the Tokyo Institute of Technology. An esteemed educator, he taught at Yamanashi University and Tamagawa University, where he eventually held the position of dean of the faculty of engineering. He also held positions at the Asahi University School of Business Administration and the Graduate School of Yamagata University.

In November 2009, Dr Yoji Akao was named ASQ's 24th Honorary Member. The previous ASQ honors include the Distinguished Service Medal in 2001 and the Shainin Medal in 2006. He earned Deming Prize for Individuals: 1978 and Quality Control Literature Prize: 1960

NIQR mourns the passing away of Dr. Yoji Akao on 24th October 2016 at the age of 88 years.



NIQR welcomes the new members who joined during Nov - Dec 2016

INDIVIDUAL LIFE MEMBERS

Mr. K. M. Karthik Maniyan – CEO, Modern General Industry

Mr. R. Swaminathan – Associate, Ashok Leyland

Lion C. Subramanian – Chairman, Jayalakshmi Institute of Technology

12 Individual Annual Members

63 Student Members from Jayalakshmi Institute of Technology

Chennai Branch Activities

Monthly Evening Lecture Programs October 2016

CA. Gopal Krishna Raju, Partner of M/s K. Gopal Rao & Co., Chartered Accountants, Chennai delivered a lecture on “GST – Way Forward” at NIQR Conference Hall on 27th October 2016.

Dr. V. Swaminathan, National Vice President - NIQR presided and welcomed the members. Mr. C. V. Gowri Sankar, Secretary - NIQR Chennai Branch spoke about NIQR and its activities and introduced the speaker.

The lecture was very much informative and useful in many ways for the audience. Due to paucity of space, only a few significant points are given.

CA. Raju listed all the indirect taxes prevailing now and the roadmap and milestones for the Goods and Services Tax which will replace all the present taxes. He explained with an example how multiple tax or tax on tax will disappear with the advent of GST. The main advantage of GST is it is consumption based unlike majority of present taxes which are manufacturing based. The mandatory filing of 4 returns in GST was well explained – and it will be 100% e-filing with auto numbering for invoices sequentially with issues easily tracked and resolved quickly.

The Q&A session was very lively and many skewed questions were answered to the satisfaction of the audience. Mr. P. Vinayakamurthy,

NIQR - Life Member summed up the proceedings praising the speaker for making a commercial subject very lively and informative to quality professionals.

The NIQR Newsletter “Q Zine” for Sep - Oct 2016 was released by Dr. V. Swaminathan at the end of the lecture. Mr. C. V. Gowri Sankar proposed the vote of thanks.



CA GOPAL KRISHNA RAJU is a practicing Chartered Accountant from Chennai, partner of M/s K. GOPAL RAO & CO., Chartered Accountants. He hails from a family of Chartered Accountants, his father, mother, younger brother and wife all are Practicing Chartered Accountants. He is having a rare honour of elected for the consecutive third term to the Southern India Regional Council of The Institute of Chartered Accountants of India (SIRC of ICAI) for the triennial term 2016-2019. He is a seasoned speaker on Information Technology, Finance & Taxation; and a visiting/guest Faculty for numerous Institutions, Corporates and B-Schools

Prof. C. Y. Krishna Murti Memorial Lecture

NIQR Chennai Branch had organised the Prof. C. Y. Krishna Murti Memorial Lecture Meeting on 5th November 2016 at Hotel Radha Regent Chennai. Mr. P. K. Aggarwal, National President - NIQR was the Chief Guest.

Mr. C. V. Gowri Sankar, Secretary - NIQR Chennai branch welcomed the gathering and also read out the message from Prof CYK's daughters thanking NIQR for organising the event. Dr. G. Rangarajan, National Council Member - NIQR started the proceedings with details of Prof. CYK's involvement as one of the founder members of NIQR & QCFI and recalled his nostalgic memories with Prof CYK.

Mr. P. K. Aggarwal in his Presidential address spoke about the achievements of Prof C Y Krishna Murti and showed his appreciation for Chennai Branch arranging a Memorial Lecture annually. Dr. N. Rangaswamy, former Joint Secretary - NIQR Chennai Branch introduced the speaker of the day Mr. M. Hariharan Mathrubutham, Vice President – Delivery Excellence, Cognizant Technology Solutions, Chennai.

Mr. M. Hariharan Mathrubutham explained the methodology of IT companies and Cognizant in particular, who are recruiting 1000s of graduates every year, in making them follow the process to deliver value to the customers.

He explained how cultural change has helped a 6000 people company to grow to a 2.5L people company. He dwelt at length comparing Quality Assurance of Manufacturing Industry and Delivery Excellence or Business excellence of IT Industry. He listed how process non-compliance impacts the Customers and Business Value.

He explained the process approach in execution of a project from Application Development, Testing, Application Maintenance, Infra Support and Business process Service.

He was firm the Mantra for Success of today's IT company lies in “Think more on behalf of Customer to win the Customers' mindset” and in “Understand the Past, Control the Present & Predict the Future”. His use of a simple common example of IRCTC ticket booking to explain various IT concepts was appreciated by all. The Q&A session was very lively with



queries related to multi various fields.

Mr. C V Gowri Sankar delivered the vote of thanks.



Mr. Hariharan Mathrubutham is Vice President – Delivery Excellence, Cognizant Technology Solutions, Chennai. He has over 26 years of experience in core quality assurance and continuous process improvement activities in both software and systems engineering which he successfully leverages to drive organization wide strategic initiatives to achieve delivery excellence. A recognized industry thought leader in quality management, is an active contributor in many professional bodies towards developing international standards and sharing best practices.

Shri LSN Guptha Memorial Lecture

NIQR Chennai Branch had organised the Shri LSN Guptha Memorial Lecture Meeting on 19th November 2016, at Hotel Radha Regent Chennai. Mr. K. V. Natarajan, Plant Head - Ashok Leyland Ltd., Chennai was the Chief Guest. Mr. R. Vasu, Vice President QHSC - Brakes India Pvt. Ltd., Chennai was the Guest Speaker.

Mr. K. Manikandan, Chairman, NIQR Chennai Branch welcomed the gathering. Dr. P. Ramesh, Vice chairman - NIQR Chennai Branch shared with the audience the achievements of Late Shri L Satyanarayana Guptha in the fields of training and development.

Ms. S Tharika, granddaughter of Shri LSN Guptha thanked NIQR for organising the Memorial Lecture and shared some of her memoirs with the August gathering.

Mr. C V Gowri Sankar, Secretary - NIQR Chennai Branch introduced the Chief Guest Mr. K. V. Natarajan. In his address, Mr. K. V. Natarajan recalled his long association with Gupthaji and the way Gupthaji will drive people to adhere to quality principles in life.

Mr. K. Sridharan Balaji, National Secretary - NIQR introduced the speaker Mr. R. Vasu highlighting his passion for Six Sigma and shared his achievements in training over 200 Green Belts.

The topic for the lecture was “Quality from HR Perspective” and Mr. R. Vasu explained TQHRM practiced in Brakes India and how it differs from traditional HRM. He emphasised on Commitment to Quality through the Involvement of People through Empowerment and Teamwork.

Employee Empowerment is achieved through Enabling, Involving and Encouraging. He listed down the benefits of empowered workforce and explained how the motivated and empowered employees have done extremely well in Six Sigma Projects.

He concluded thus, “A Quality system resembles a new car without petrol: perfect in every respect, but it will not go. The quality fuel is employee, attitude and motivation.....”

Mr. C V Gowri Sankar proposed the vote of thanks.



Mr. R. Vasu is a B.Tech from MIT, Anna University. He has also got MS from BITS Pilani, MBA from Bharathiar University and PG Diploma in SQC & OR from Indian Statistical Institute. He has 33 years in Engg. Design & Development, Quality Assurance, Manufacturing System Engg and New Products Development. He is a Six sigma Master Black Belt from CII and regularly Conducts Six Sigma training & has certified over 200 Six Sigma Green Belts / Black Belt and 150 Yellow Belts and guided over 400 Six Sigma Projects.

Recently won the CII award for Excellence for Sustaining Six Sigma initiatives. Currently he is Vice President & Corporate Management Representative, Brakes India Private Limited

Two day Training Program on Quality Awareness on 21st & 22nd October 2016

NIQR Chennai Branch organised a two day training program on Quality Awareness for shop floor operatives on 21st & 22nd October 2016 at NIQR Conference Hall. There were 25 participants from 11 organisations.

Mr. C. V. Gowri Sankar, Secretary - NIQR Chennai Branch was the coordinator.

Mr. K. Sridharan Balaji, National Secretary - NIQR inaugurated the two day program and advised the participants to make use of the learnings from the program to improve their productivity and quality levels.

On the first day, Mr. V. Rajagopalan Life Member - NIQR Chennai Branch handled the topics - Changing Scenario, 5S, Kaizen & QMS.

Mr. C. V. Gowri Sankar covered the topics Working Together, TPM, 7QC Tools and Quality Circle on the second day.

In the valedictory function, Mr. C. V. Gowri Sankar distributed the training certificates to the participants. The feedback from the participants was excellent.



Two day Training Program on Quality Awareness on 10th & 11th November 2016

NIQR Chennai Branch organised a two day training program on Quality Awareness for shop floor operatives on 10th & 11th November 2016 at NIQR Conference Hall. There were 12 participants from 5 organisations.

Mr. S. Murugan, ECM - NIQR Chennai Branch was the coordinator.

On the first day, Mr. P. Kothandaraman, ECM - NIQR Chennai Branch handled Changing Scenario & Continual Improvement. Dr. V. M. Gunasekaran, ECM - NIQR Chennai Branch handled ISO & Working Together.

On the second day 5S, Kaizen & TPM were handled by Dr. V. Swaminathan National Vice President - NIQR and Quality Circle was handled by Mr. S. Murugan. A case study was presented by a Q C team from M/s Lear Automotive India Private Limited, Mahindra World City, Chennai.

In the valedictory function, Dr. V. Swaminathan distributed the training certificates to the participants. The feedback from the participants was good.

One day Training Program on PFMEA on 10th December 2016

NIQR Chennai Branch organised a one day training program on PFMEA for middle level executives from Production, Maintenance, Quality and Planning departments on 10th December 2016 at NIQR Conference Hall. There were 24 participants from 9 organisations and one Engineering College.

Mr. C. V. Gowri Sankar, Secretary - NIQR Chennai Branch was the coordinator and faculty.

The program covered the following in detail

- FMEA elements, ranking and use of FMEA for achieving customer satisfaction
- Use of RPN, SOD and SO to assess risk
- How to keep FMEA as a dynamic document to meet the set quality objectives, Customer requirements & statutory regulations.
- Features of FMEA 4th Edition

The faculty used lot of case studies from auto industry and service industry to make the participants understand the subject well. He made the participants deliberate on the FMEA document brought by one of the participants.

In the valedictory function, Mr. S. Rajasekaran, National Vice President - NIQR gave a lecture about the value of FMEA in the whole supply chain starting from OEMs to tier 3 suppliers and the need for keeping FMEA LIVE and methods to achieve it.

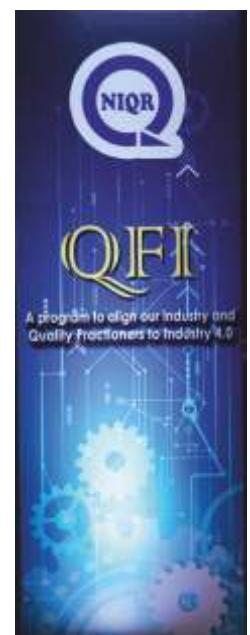
He also distributed the Participation Certificates. The feedback from the participants was excellent.



One day Training Program: Quality For Industry 4.0

The fourth industrial revolution refers to the current trend of automation and data exchange in manufacturing technologies and Business Operations. It includes cyber-physical systems, the Internet of things (IoT, IIoT) and cloud computing. The advent of Industry 4.0 concepts is changing the face of the Industrial & Business scenario bringing in transparency in data management, accelerating the decision making and embarking into a paradigm shift from Manufacturing Quality to Service Quality. The various opportunities, the large extent of change and the elevated need for investments make the Industrial Internet one of the most important topics for corporate management.

The first significant driver for the advance of Industrial Internet solutions lies in the opportunity to integrate and better manage horizontal and vertical value chains. The digitization and interconnection of products and services (Internet of Things/Services) is a second important driver.



Adapting Industry 4.0 frees up the minds of the people in the entire process chain so that the mind space is put to more productive use. As part of the Indian Industry, we need to embrace this global transformation to survive and to protect our competitive edge.

With the aim of sensitising the whole gamut of industries to the needs of transforming to the next industrial revolution, NIQR Chennai Branch is organising a training program; the program is also open to students of engineering and management colleges to enable them to become industry-ready. NIQR Chennai Branch has set its sight on educating 20K people in one year.

The first program was organised on 19th November 2016 at Hotel Jaya Pushpam, Koyambedu, Chennai. 167 participants from various industries including around 25 CEOs and entrepreneurs attended the one day program.

The Inaugural function started with Dr. V. M. Gunasekaran, ECM - NIQR Chennai Branch welcoming the dignitaries and participants. Mr. K. Manikandan, Chairman - NIQR Chennai Branch briefed the audience about the contents of the program and the importance of sensitising and freeing up the minds of the people so that the mind space is put to more productive use.

Dr. V. Swaminathan, National Vice President - NIQR introduced the Guest of Honour, Mr. K. N. Krishnamurthy, Former National President - NIQR and the Chief Guest, Dr. Vinod Surana, Partner & Chief Executive - Surana & Surana International Attorneys to the audience.

In his special address, Mr. K. N. Krishnamurthy explained to the audience present Indian Industrial Scenario and the importance of migrating to the Industry 4.0. Dr. Vinod Surana, in his presidential address complimented NIQR for its vision of educating 20,000 people and offered all help in implementing the same.

He was forthright in his views that the advent of Industry 4.0 will not hamper shop floor job security but instead it will only add more jobs but in new fields.

Mr. C. V. Gowri Sankar, Secretary - NIQR Chennai Branch proposed a vote of thanks.

The training program consisted of 4 modules namely,



- Industry 4.0 - Need of the Hour
- Introduction to Industry 4.0
- Basic Quality Assurance Concepts and
- Quality For Industry 4.0 & Way Forward

Module 1:

Mr. P.T. Bharaniperumal, ECM, NIQR Chennai Branch briefed about India's Growth Potential and with examples, compared India's GDP Growth vis a vis that of the World. He gave projections of per capita growth and key drivers of Auto Industry Growth.

Stressing on the urgent need of bringing under control the growing Skill Gap, he advocated that the Indian Industries have to play their role – Embrace Industry 4.0, which is the Need of the Hour.

Module 2:

Mr. G. Pandurengan, ECM, NIQR Chennai Branch started with the rise of the Factory System(1.0) in 18th Century and explained the advent of the Technological Revolution(2.0) in early 19th Century followed by the Digital Revolution(3.0). He dwelt on the "smart factory"(4.0) with effective use of Automation and data exchange in manufacturing technologies which includes Cyber-Physical systems, the Internet of Things and cloud computing. He gave some examples and explained the benefits of I-4.0 in Manufacturing and Management.

Ms. K. Geetha, Engineer, CQ-Supplier Quality - Ashok Leyland Ltd. explained two examples of tool monitoring using cloud.

1. Cutting Tool life monitoring in Traub machine by simple use of technology by providing digital counter unit.

2. Die life motoring. Once the number of stroke reaches the pre set value it will stop the press automatically. All the presses in the press shop are integrated; monitoring of tool life becomes easier by using PLC and BAR coding system.



Module 3:

Dr. V. M. Gunasekaran explained the Basic Quality Assurance Concepts in three parts pertaining to Preparing for Quality, Pronouncing Customer Quality and Processing for Quality. He illustrated how life will be made easy in Industry 4.0 for applying these concepts and how the mind will be able to go to the next level.

After lunch, Mr. Balachandra Datta N S, VP (Corp Affairs) - Group Head of Hyundai Motor India addressed the participants and allayed the fears that jobs will be lost with the advent of I-4.0. He also gave some simple examples from his organisation to drive home the simplicity of I-4.0 concept wise and the importance of it in today's Indian Industry.

Module 4:

Mr. K. Manikandan explained that the Basic Quality Management System will remain same; in fact it will only become faster.

Cloud will be used for storing and automatic analysing of basic data & give updates to concerned persons; even initiating next course of action, thereby freeing the mind space.

Mr. S. Rajasekaran, National Vice President - NIQR helped the participants to migrate to the next level by narrating some examples from his own factory and explained how new jobs will be created in newer fields.

Mr. P. K. Aggarwal, National President - NIQR presided over the valedictory function and praised the organisers for the wonderful program and set the bar high that we should educate 2 lakhs people in the years to come. He also distributed the Participation certificates to all.

The training program concluded with vote of thanks by Mr. C. V. Gowri Sankar



UNITED GROUP OF COMPANIES
Manufacturer of Ductile & Grey Iron Castings

United Group of Companies is promoted by Shri B. Govindarajan, a well known technocrat having more than 3 decades of experience in the foundry industry, now is a renowned establishment in South India that produces SG (Ductile Iron) & Grey Iron castings, with the help of highly dedicated work force & cutting edge technology. The other Directors are also experienced in the line.

Plant	United Foundries Private Limited	Unicast Alloys Private Limited	Hitech Die Cast Private Limited	Expansion Plan BY 2016
Location	12-D, SIPCOT Industrial Complex, Ranipet	Achipatti post, Polfachi, Coimbatore	Achipatti post, Polfachi, Coimbatore	
Year of establishment	1979	1990	1983	
Land Area	18564 Sq m	28524 Sq m	11344 Sq m	
Built up area	9908 Sq m	9234 Sq m	8250 Sq m	
1 Induction Furnace	1 ton - 750 KW - 1 No 0.5 ton - 450 KW - 1 No 1 ton - 450 KW Crucible - 1 No	1.5 ton - 1250 KW - 2 No's	1 ton - 1250 KW - 2 No's 1 ton 750 KW - 1 No.	1.5 ton Tritrack 3000 KW
2 Mold Line Type (Green Sand Process)	Vertical High Pressure line, DISA2110 MK2 Horizontal High Pressure Line, SINTO	ARPA-300 ARPA-900	ARPA-300 ARPA-450	KOYO Horizontal High Pressure Line MODEL: 1000-1000-1000
3 Mold line: Match Plate / Box Size (LengthxWidthxHeight in mm)	DISA : 500 x 400 x 315 SINTO : 340 x 440 x 120	ARPA-300 : 520 x 400 x 150 ARPA-300 : 520 x 520 x 150 ARPA-900 : 1000 x 800 x 300	ARPA-300 : 520 x 400 x 150 ARPA-450 : 600 x 650 x 200 ARPA-450 : 600 x 750 x 200	700 x 600 x 250
4 Weight Range (Single Piece)	DISA : 0.5 Kg to 10 Kg maximum SINTO : 0.3 Kg to 8 Kg Maximum	5 Kg to 125 Kg Max	5 Kg to 50 Kg / Piece	5 Kg to 50 Kg
5 Core Type	Co2, Cold Box	Co2, No Bake, Oil, Air Set, Cold Box	Co2, Air Set, Cold Box	Co2, No Bake, Oil, Air Set
6 Heat Treatment	2 ton Boggle Type Electrical Furnace	3 ton Boggle Type Electrical Furnace		
7 Laboratory Facilities, available in all units	SPECTRO : CE Meter; Brinell Hardness Tester; Tensile; Microscope Image Analyser; Magnetic Particle Inspection; Ultrasonic testing			
8 Sand Plant & Testing Facilities, available in all units	Sand plant equipped with Sand cooling system & dust collection system. Testing facility - G.C.S Machines, Pemeability, Compactibility, Moisture, Mold hardness tester & Sieve Analysis			
9 Installed Capacity per annum	12000 tons	15000 tons	12000 tons	24000 tons

NIQR Student Chapter in Jayalakshmi Institute of Technology, Thoppur, Dharmapuri

NIQR Chennai Branch started yet another Student Chapter in NIQR Student Chapter in Jayalakshmi Institute of Technology, Thoppur, Dharmapuri. Mr. P K Aggarwal, National President - NIQR was the Chief Guest for the inaugural function organised by the Department of Management Studies at the College Auditorium at 11.30 AM on 3rd December 2016.

This is the TENTH active Student Chapter of NIQR under Chennai Branch.

Dr. S. Mohanamurugan, Principal of the College welcomed the gathering which included many dignitaries from NIQR, 100 students and 30 staff members. LN. C. Subramanian, Chairman of the College in his presidential address commended NIQR for the services it was offering through Student Chapters and asked the staff & students to make use of them to increase their knowledge.

Mr. C V Gowri Sankar, Secretary - NIQR Chennai Branch presented the vision, mission and goals of NIQR & explained the activities of NIQR in particular to the student community.

He spoke about the Industry 4.0 training program launched recently by NIQR and offered to arrange one in the college for the students. He said Mr. N. Anbuhezhan, Executive Council Member - NIQR National Body will be the mentor for the College.

The Chief Guest Mr. P K Aggarwal spoke about the needs of the industry today and the future. He advised the students to keep abreast about the technological advancements made in the manufacturing sector and said NIQR is ready to offer all helps in this.

Mr. S. Rajasekaran, National Vice President - NIQR gave a special lecture on "Smart Manufacturing". He explained the four stages of Industrial Revolution and how the Indian Industry is preparing for the Industry 4.0. He gave a clear picture of the use of Artificial Intelligence and cloud computing in smart manufacturing.

NIQR Individual Membership Certificates were presented to 25 staff & students by the dignitaries.

Dr. P. Mathiyalagan, Organizing Secretary of the Student Chapter proposed the Vote of Thanks.



Second Annual Competition on Six Sigma Case Study Presentation

NIQR HQ organised the Second Competition on Six Sigma Case Study Presentation on 26th Nov 2016 in The Westin Chennai, Velachery, Chennai.

The program started with invocation song by Mr. S. Murugan, ECM - Chennai Branch NIQR. The Chief Guest, Mr. S. Rajasekaran, National Vice President - NIQR welcomed the participants and inaugurated the competition; he advised the teams to focus on end-customer requirements to achieve the organisation's vision. Mr. K. Sridharan Balaji, National Secretary - NIQR introduced the judges. Program highlights were explained by the Chief Jury Dr. A. Sanjeeva Rao, Past National President - NIQR.

The day was full of action with 33 teams from 7 organisations showcasing their case studies. The teams were divided into two groups and the teams made their presentations in two halls. Dr. A. Sanjeeva Rao and Mr. R. Anandakumar were the judges in Hall 1 & Dr. D. Sampangiraman and Mr. R. Mohanakrishnan were the judges in Hall 2.

Mr. P. K. Aggarwal, National President - NIQR who presided over the valedictory function emphasized upon the need to make "Six Sigma" as a way of approaching the quality improvement activities. To promote this approach, he also suggested bringing some changes in the way we hold this competition like Gemba visit by the jury to witness the actual activity.

Dr. V. Swaminathan, National Vice President – NIQR coordinated the event and Mr. V. Raghavan, Vice Chairman - NIQR Chennai Branch compiled the results from the two streams and finalised the results. 3 teams from Visteon Electronics India Pvt. Ltd., M.M. Nagar, Visteon Technical and Services Centre Pvt. Ltd., Chennai and TAFE Ltd., Chennai were adjudged overall best and presented the Platinum Awards. 17 Teams were presented Gold Awards and 12 teams Silver Awards & one team Meritorious Award. Mr. K. Sridharan Balaji proposed the vote of thanks.



4 Day Workshop on Six Sigma Green Belt for Ashok Leyland Vendors at Hosur

NIQR Head Quarters organised a 4 Day Workshop on Six Sigma Green Belt exclusively for Vendors of Ashok Leyland Limited initiated by Mr. K. Manikandan, Head - Supplier Quality Ashok Leyland Limited.

The 4-day workshop was handled by Dr. A. Sanjeeva Rao, Past National President - NIQR, Dr. V. Swaminathan, National Vice President - NIQR and Mr. R. Mohanakrishnan, National Council Member - NIQR. It was conducted at Management Development Centre, Ashok Leyland, Hosur on 28th Nov'16 & 2nd Dec'16 to 4th Dec'16.

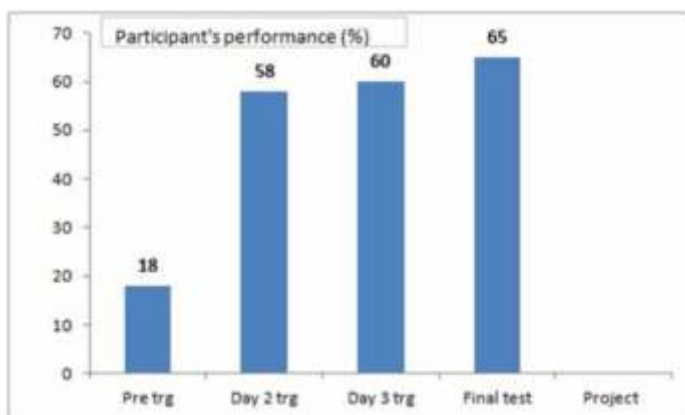
There were 28 participants from 21 vendors and one from Ashok Leyland. The workshop was inaugurated by Mr. Hariharan, DGM Material Sourcing - Ashok Leyland. Dr. V. Swaminathan briefed about NIQR and introduced the faculty members to the participants. Dr. A. Sanjeeva Rao explained about the workshop design and explained about the certification criteria.

Every day there was a test on the portions covered in the previous day for forty minutes. Participants' performance was continuously monitored. The program was filled with lot of examples and hands-on exercises and the participants were able to get basic clarity on the subject.

Minitab session was organized on the third day to enable participants to get more clarity and to ease their calculations and conclusions.

One case study was presented from an industry on productivity improvement and the interactions helped the participants confident of taking up projects.

The participants will be awarded Green belt on successful completion of a project.



Quality Month Celebrations at Ashok Leyland Limited

Ashok Leyland Limited organised month long programs as part of their Quality Month Celebrations in November 2016. Eminent Quality Professionals from NIQR participated in their celebrations and gave Guest Lectures to their Managers and Engineers on various quality related topics.

Mr. N. Anbuhezhan, NIQR - National Council Member delivered a guest lecture on "Process Excellence" on 4th November 2016.

He gave the participants a new thinking "how to make a lovable quality instead of likable quality". According to him the word "Quality" will be replaced by "Excellence" when we mature in Industry 4 revolution since customers will expect a quality experience instead of product quality alone. He also insisted on an integrated and sustainable process excellence model instead of each day one new initiative approach.



Mr. P. K. Aggarwal, National President - NIQR delivered a lecture on 11th November 2016.

Theme of the lecture was "Win your customers through Sustainable Transformation". The lecture emphasized upon the need to win "Skill & Will" of the people to improve quality at organization level: He also insisted on every organisation to align the people across levels to customer through "Effect of Defect" program and to increase use of Digital Quality Applications in line with various initiatives under Industry 4.0 program prevailing over the country.



Mr. S. Rajasekaran, National Vice President - NIQR delivered a lecture on 18th November 2016.

Theme of the lecture was "Smart Manufacturing". He explained Industry 4.0 and its application in the Indian Industry. He emphasised that there need not be any fear of job-loss with the advent of Industry 4.0; instead new jobs in different fields will be created and the minds will be freed to think creatively. He thrilled the audience by sharing some examples of smart manufacturing in his own organisation which is Tier I supplier to Auto OEMs.



Mr. S. Muralishankar, National Treasurer - NIQR delivered a lecture on 25th November 2016.

His lecture was about "Quality assurance - A different perspective". Instead of going through the standard concepts like 7QC tools, TQM etc., he shared with the Ashok Leyland team SAF approach (Super Auto Forge) – QAD (quality assurance through design), QAP (quality assurance through process), QAPY (quality assurance through poke-yoke) and QAMH (quality assurance through material handling). He also shared with them lot of case studies.



Quality Month Celebrations at KRAMSKI Stamping and Molding India Pvt. Ltd.,

KRAMSKI Stamping and Molding India Pvt. Ltd., an injection molding & precision stamped parts manufacturer, located at Vellore celebrated October as Quality Month.

They invited NIQR to partake in their QM celebrations on 26th Oct 2016 in their premises. NIQR National Vice Presidents **Dr. V Swaminathan** and **Mr. S. Rajasekaran** graced the occasion.

Mr. S. Rajasekaran gave a lecture on Supply Chain Management describing how SCM is essential to meet the end customer requirements. He also elaborated on today's industrial scenario and the recent spurt of recall of vehicles in the present Auto Industry.

Dr. V Swaminathan detailed the Vision & Mission of NIQR and gave an elaborate picture of TQM in Indian Industries and the various steps required to upgrade to next level.



Quality Month Celebrations at Dwaraka Engineerings

Dwaraka Engineerings, one of the leading manufacturers of Precision Machined Elevators Parts and Assemblies in Chennai, India, celebrated November as Quality Month. **Mr. K. Manikandan**, Chairman - NIQR Chennai Branch and **Mr. P. T. Bharani Perumal**, ECM - NIQR Chennai Branch participated in their Quality Month Celebrations on 28th November 2016. Mr. K. Manikandan appreciated the management and employees of M/S Dwaraka Engineerings for their involvement and commitment towards high level of 5S and for the robust process. He also insisted on the importance of customer satisfaction.





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ASSOCHAM Conference on Defence Manufacturing

ASSOCHAM in association with the National Institute of Quality and Reliability (NIQR) and the Ambattur Industrial Estate Manufacturers Association (AIEMA) has organised an interactive session on "Opportunities for MSME's in Defence Manufacturing, Focusing on Process Based Quality Management" from 10.00 AM to 1 PM on 2nd November 2016. This event focused on the needs of the Industry to understand procurement and acquisition related procedures of the Defence establishments, especially with regards to the quality requirements so as to give an impetus to the growing partnership between Defence and the Industry.



Capt IJ Arora, President and CEO - QMII, Ashburn, Virginia spoke on the Importance of Quality in Defence Manufacturing, the Fundamentals of Process Based Quality Management and its application to Defence Manufacturing.

Prof. D. R. Kiran, National Council Member-NIQR represented NIQR in this event.

ASSOCHAM Conference on Education

In celebration of International Education Week, U.S. Consulate General Chennai and ASSOCHAM, Tamilnadu Chapter jointly organized a round table conference on Best Practices in International Collaborations on International Students Exchange in Chennai on 18th November 2016 at International Law Centre, Chennai.



The conference was inaugurated by the Consul General of USA. The conference focused mainly on opportunities for students across the world in US Institutions and improving international students' engagement in Indian Institutions.

Prof. D. R. Kiran, Dr. (Mrs). K. S. Babai, Mr. C. V. Gowri Sankar and Dr. V. M. Gunasekaran represented NIQR in the conference.

Members in News

Mr. K. N. Krishnamurthy, Past National President - NIQR was one of the Panelists for the Panel Discussion "Zero Defect & Zero Effect", the Seminar on "Global Edge through Best Manufacturing Practices" organised by Confederation of Indian Industries on 21st October 2016 at Hotel Crowne Plaza Chennai Adyar Park, Chennai.



Institution of Engineers (India) Tamilnadu as part of its Guest Lecture Series arranged a Technical Guest Lecture on 21st November 2016 at its premises in Chepauk. **Mr. D. Krishnamachari**, NIQR - Life Member gave a lecture on "Lean Manufacturing". He started with Business Lean Culture and explained how LM exposes the Myth of Fear of losing jobs amongst the workmen & managers



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Delhi NCR Branch Activities

Glimpses of NIQR Delhi NCR Branch Activities

Quality Summit cum Kaizen Competition at FIA Hall, Faridabad

NIQR Delhi NCR Branch & FIA (Faridabad Industrial Association) organized a Quality Summit & Kaizen competition on 3rd December 2016 at FIA Hall, Faridabad. The summit was a grand success with over 90 Quality Professionals from 50 Tier 1 Suppliers participating in it.

Quality Summit had two panel discussions where Eminent Quality Professionals shared their views on Quality.

Panel 1: The Sustainable Quality

In the first panel discussion, Mr. N.P. Chandok (AVP Hero Motocorp & EC Member NIQR), Mr. R. B. Madhekar (CEO, RBMSS & EC Member NIQR) and Mr. Sandeep Handa acted as panelists & Mr. S. K. Taneja (Former Director Escorts India Ltd.) moderated the discussions.

The eminent panelists concurred that Sustainable Quality is the mantra of “Consistency in Quality Requirements & the Ability to meet Future Developments”.

They explained how the sustainable processes, sustainable products and sustainable system lead to Sustainable Quality.

Panelists also focussed on continual improvement through Kaizen, Poka Yoke and Quality circle to attain sustainable results.

In conclusion, one can measure Sustainable Quality by measuring & controlling Cost of Quality and it can be achieved through consistency in products, processes and systems & every individual is responsible to accelerate the Quality revolution.



Panel 2: The Global Expectation: The secret of competitiveness

Mr. K. C. Hallone (Director Srinis Sons & EC member NIQR), Mr. Vipin Garg (VP Quality MSIL & Vice Chairman NIQR), Mr. R. K. Jain (AVP Quality MSIL) & Mr. Ranjan Vashistha (CEO Quantum Jump Consulting & EC Member NIQR) were the panelists and Dr. S. K. Goel (ED Star Wire India) moderated the discussions.

The discussions centred on Global Competitiveness, its importance & pillars to achieve Global Expectation. Global Competitiveness is the ability of a country to provide quality products and services at competitive prices and providing adequate returns.

Importance of Competitiveness

- To increase the living standards
- To increase FDIs
- To increase productivity
- To gain macro-economic stability
- For the economic development of the country
- To maintain balance of trade between import and export of a country

To fulfil Global Expectations, Industry must understand the global agenda like Pollution, Safety, Recalls and Reliability. Panelists shared their views on Recalls & pollution norms amongst the industry professionals.

Kaizen Competition

The Kaizen Competition attracted 105 entries of which 18 Kaizens were shortlisted for the final competition through presentation. The following Quality Professionals formed the Jury:

- Ms. Saloni Kaul, India Talent Services.
- Mr. Sameer Kumar, JCB India Ltd.
- Mr. Amit Kumar Vishnoi, Ashok Leyland Limited.
- Mr. Sumit Shandilya, SQE, HERO MotoCorp Limited.



Team from Victora Auto Pvt. Ltd. was the winner of the competition; there was a tie for the next best presentations.

1st Runner Up – Tie between JCB India Ltd. and Bony Polymers (P) Ltd.

2nd Runner Up – Tie between Admach Auto India Ltd. and GKN Driveline (India) Ltd.

Forthcoming events



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Chennai Branch Newsletter November - December 2016

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