

**September 2015**

[http:// www.sfa.mes.ac.in](http://www.sfa.mes.ac.in)

PILLAI INSTITUTE OF INFORMATION TECHNOLOGY PANVEL

#### News at a Glance

- AGBM of SFA Mumbai Chapter
- Activities of the Chapter
- Half Day Workshop on “Computed Tomography”
- ASQ –LMC Webinars
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- Personalia
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#### Appeal to Readers

News from different chapters and SFA Members are solicited for inclusion in the Newsletter. Send such news to the Editor

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The Society for Failure Analysis was established in the year 2006 with the patronage from many eminent experts with a mission to reduce failures that are estimated to cost 3-4% of GDP in a developing country. The Mumbai Chapter of SFA started on November 2014 to serve industries interested to investigate root cause of failures thus improve the quality of products to fulfil the this objective the society organises lecture, workshops, clinics, seminars and courses related failure analysis. The details of the activities of the Mumbai chapter are listed on the web page: [www.sfa.mes.ac.in](http://www.sfa.mes.ac.in).

The first AGBM of SFA Mumbai Chapter was held on August 22, 2015 at the Conclave of PIIT Panvel. The meeting was presided over by Mr. C. Tandi ED IEOT and Chairman of the SFA Mumbai Chapter.



Chairman SFA Mumbai Chapter Mr. C. Tandi ED IEOT, ONGC Panvel addressing the AGBM in the presence of Prof. R.C. Prasad Vice Chairman

The Vice President of the Society Prof. R.C. Prasad. Extended warm welcome to the members and delegates. Some of the photographs taken during the AGBM are enclosed. The AGBM ended with the vote of thanks by the treasurer Mr. Niraj Kumar.



**Prof. R.C. Prasad Vice President SFA Hyderabad highlighted the achievements of Mumbai Chapter & presented the road map for 2015-16**



**Dr. A. Bhardwaj Member of the Advisory Committee & GM IEOT, ONGC Panvel making a point during discussion on the road map for 2016**



**Participants of AGBM SFA Mumbai Chapter discussing road map for 2016**



**Participants of AGBM SFA Mumbai Chapter along with Invited speakers**



**Secretary Dr. A. Bhandakkar and Treasurer Mr. Niraj Kumar SFA Mumbai Chapter engaged in intense deliberation during the AGBM**



**The AGBM ended with the vote of thanks by Mr. Niraj Kumar Treasurer SFA-MC**



The activities of the Mumbai Chapter during the period November 2, 2014 to August 22, 2015 is listed below.



SFA Mumbai Chapter

## Half Day Technical Program On Computerized Tomography

Organised by



PIIT Panvel



Friday, March 27, 2015

Venue: Conclave, PIIT Panvel

### Program Schedule

Technical Film	History & Technology of Computerized Tomography	Dr. Scott Klioze, Helifax Medical Centre	2:30 to 3:00 pm
Technical Lecture	Advancement in Industrial Computed Tomography	Mr. Samaresh Changdar & Uday Takle General Electric Mumbai	3:00 to 4:30 pm

Some of the photographs taking during the technical lecture by Uday Takle are given below



### Find Opportunities

- Green Field Market Place
- Open Network
- Don't ask
  - 'do we meet req'ts'
- Ask Customer;
  - 'where having difficulty?'
  - unfulfilled needs
- Starts creative process
- Then define the problem

*If I had an hour to save the world  
I would spend 55 minutes defining the problem  
and 5 minutes finding the solution. - Einstein*



### Creative solutions

- Produce new ideas thru
  - imagination and
  - unconventional approach
- Occurs when we
  - Have freedom to think
  - interact with new stimuli.
- Daily work removes freedom
- Step out of the box
- Use Collective knowledge
  - go 'right brain
  - Separates us from competitors

*Einstein: No problem can be solved with the  
same level of consciousness that created it*

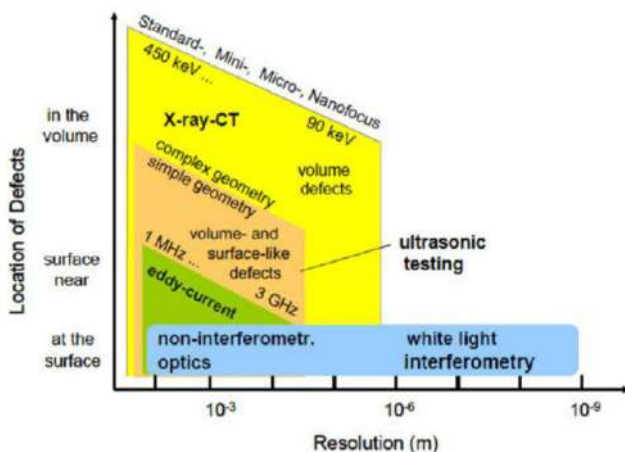


## Advancement in Industrial Computed Tomography

by

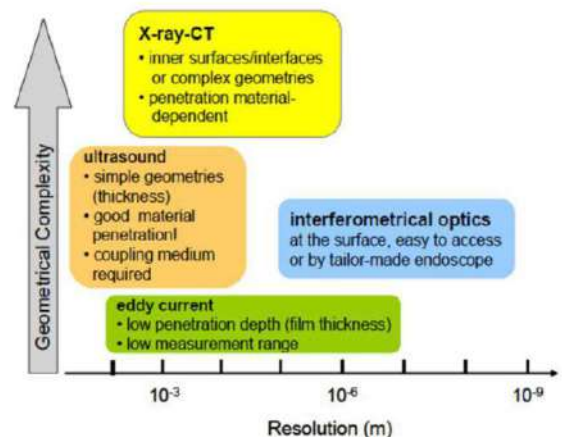
Mr. Samaresh Changdar and Mr. Uday Takle  
General Electric Mumbai

Today, due to significant improvements in both hardware and software, CT has become a powerful and widely used tool among non-destructive techniques, capable of inspecting external and internal structures (without destroying them) in many scientific research as well industrial applications. Development of more and more stable X-ray sources and better detectors led to design of more complex CT system, providing accurate geometrical information with micrometer accuracy. CT is widely used for geometrical characterization of test objects, material internal structure determination, density variation inspection etc. More common application for CT falls into Biomedical, materials science, Geology & Oil & Gas, automotive, aerospace/aviation component industries, failure analysis in many fields, 3D printing, electronics component manufacturing & for metrology- dimension measurement.



Industrial CT is referred to so-called NDT technologies. "Non-destructive testing" collects all methods and techniques for product quality assurance and inspection without destroying the part under investigation. The goal of these methods is to analyze the integrity of a material, component or structure and quantitatively measure some characteristics of the product in many different research applications. Due to two main advantages with respect to destructive methods (being less expensive and less time consuming) they are widely applied methods in today's scientific research.

Following shows the classification of chosen NDT techniques (including CT) according to their penetration depth and their spatial resolution. From this table it is possible to assess efficacy of the method in material defect detection. Optical, electron microscopy & interferometry achieves the highest resolution but they can basically monitor surfaces or coatings. In contrast, the best penetration depth combined with a high resolution is usually gained by X-ray CT. Similar conclusions can be drawn from other figure, where above techniques are classified on the basis of geometrical complexity for dimensional measurements. Here, the emphasis is on the measurement of geometrical parameters, e.g. the geometry of components as compared to constructed (CAD) data.



## ASQ Webinars via Google Hangout on Air, under Leadership Excellence

Organized by



SFA Mumbai Chapter



New Panvel



Mumbai, India

Local Member Community

The Global Voice of Quality™

The Pillai Institute of Information Technology at New Panvel in association with American Society for Quality is hosting a Series of Webinars via Google Hangout on Air, under Leadership Excellence Series. The Topics are listed below:

### Webinar Topics under Leadership Excellence

Leadership Excellence	Effective Teamwork	Effective Time Management
Effective Meeting Management	Effective Decision Making	Effective Project Management
Effective Risk Management	Effective Talent Management	Voice of the Customer Management
Operational Excellence	Effective Supply Chain Management	Sustainable Change Management

Venue: Conclave, 3<sup>rd</sup> Floor, PIIT Panvel

Date: Every 3<sup>rd</sup> Wednesday of the Month Starting July 15, 2015

Time: 09.00 am – 10:00 am

Each Webinar Topic consists of 45 minutes presentation by Dr. Manu K. Vora, speaking directly from Chicago live followed by 10-15 minutes Q & A with discussion. The Students & Faculty Members desirous to take benefits of this knowledge gift Webinar Series can participate by registering their names in advance with the undersigned. Participants do not have to pay any fee.

First topic of the Webinar on “Leadership Excellence” was presented by Dr. Manu K. Vora on July 15, 2015 and the second in the series on “Effective Teamwork” on August 19, 2015

### Biography of Dr. Manu K. Vora

Dr. Manu Vora is Chairman and President of Business Excellence, Inc., a global quality management consulting service firm. He has over 40 years of leadership experience and has guided Fortune 500 companies. At AT&T Bell Laboratories he has been recognized with many awards.

Manu holds an MBA with Marketing Management from the Keller Graduate School of Management in Chicago, M.S. & Ph.D. in Chemical Engineering from Illinois Institute of Technology (IIT) in Chicago, and B.S. in Chemical Engineering from the Indian Institute of Technology BHU in India. He received “2013 Distinguished Alumnus Award” from IIT BHU Global Alumni Association.

He is an ASQ Fellow and Certified Quality Engineer (CQE) as well as advisor of Eminence, Business Excellence, ASQ India. He has been Past Vice President, American Society for Quality (ASQ). He is Adjunct Faculty at School of Professional Studies, Northwestern University and is a sought after speaker on business excellence and quality management topics for local, regional, national, and international audiences. In 2005, he authored “Managing Human Capital” chapter in the *Six Sigma for Transactions and Service* book published by McGraw-Hill. He is recipient of the prestigious J. N. Tata Endowment Scholarship in India for his graduate work in the United States. As a founding Director and President of Blind Foundation for India, Manu and his team has raised over \$4 million to help over one million visually impaired people in India.



## ASQ Webinars via Google Hangout on Air, under Leadership Excellence

Organized by



SFA Mumbai Chapter



New Panvel



# Mumbai, India

Local Member Community

The Global Voice of Quality™

**Leadership Excellence**  
Dr. Manu K. Vora, ASQ CQE and Fellow  
Advisor of Eminence, Business Excellence, ASQ India  
Chairman and President, Business Excellence, Inc., USA  
Adjunct Professor, School of Professional Studies, Northwestern University  
Visiting Faculty, Great Lakes Institute of Management, Chennai, India  
ASQ India LES Topic 1 – 15 July, 2015



The total number of students & faculty members who participated in “Leadership Excellence” webinar was 130. The photographs of the participants are shown below:



**Quotes on Teamwork**

- “None of us is as smart as all of us.” --Ken Blanchard
- “Coming together is a beginning. Keeping together is progress. Working together is success.” --Henry Ford
- “The strength of the team is each individual member. The strength of each member is the team.” --Phil Jackson
- “Collaboration allows teachers to capture each other’s fund of collective intelligence.” --Mike Schmoker
- “It takes two flints to make a fire.” --Louisa May Alcott
- “Unity is strength. . . when there is teamwork and collaboration, wonderful things can be achieved.” --Mattie Stepanek
- “Talent wins games, but teamwork and intelligence wins championships.” --Michael Jordan
- “Alone we can do so little, together we can do so much.” --Helen Keller
- “Remember teamwork begins by building trust. And the only way to do that is to overcome our need for invulnerability.” --Patrick Lencioni

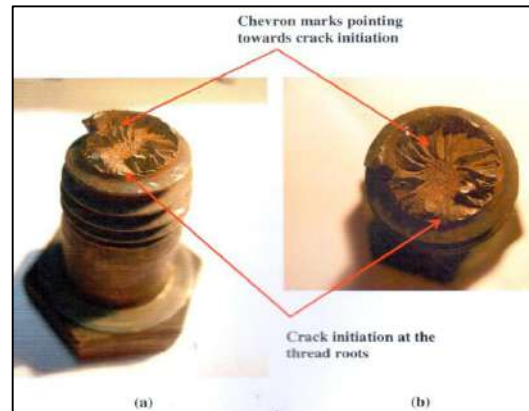
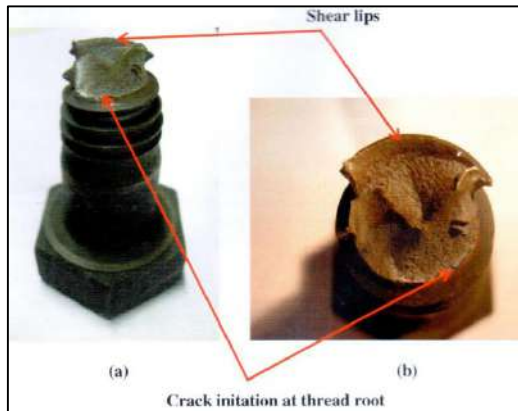
Team is a group pooling their skills, talents, and knowledge, with mutual support and resources to provide effective solutions for problems

**Effective Teamwork**  
Dr. Manu K. Vora, ASQ CQE and Fellow  
Chairman and President, Business Excellence, Inc., USA  
Advisor of Eminence, Business Excellence, ASQ India  
Adjunct Faculty, School of Professional Studies, Northwestern University  
Visiting Faculty, Great Lakes Institute of Management, Chennai, India  
ASQ India Topic 2 – 19 August, 2015

The total number of students & faculty members who participated in “Effective Teamwork” webinar was 105. The photographs of the participants are shown below:



# One Day National Workshop On *“Failure Analysis of Fasteners”*



**Saturday, August 22, 2015**

**Venue: Conclave PIIT Panvel**

**Organized by**



*SFA Mumbai Chapter*



*New Panvel*



**Mumbai, India**  
Local Member Community  
**The Global Voice of Quality™**

**Convener**

**Professor R.C. Prasad**

***Pillai Institute of Information Technology  
Dr. K.M. Vasudevan Pillai Campus, Sector-  
16, New Panvel-410206, India***

National Workshop on “Failure Analysis of Fasteners” organised by SFA Mumbai Chapter and Pillai Institute of Information Technology Panvel was supported by the ASQ-Local Member Community. The aims and objectives of Mahatma Education Society and ASQ is given in the following pages. The objective of this workshop was to expose large sections of technical community to all aspects of Fastener Technology that will provide out of box thinking for minimizing fastener failures. The eminent speakers of the workshop represented reputed academic institutes research establishments and industries having worked extensively in different aspects of fasteners. The list of speakers along with patrons, advisory and organising committee members is given below.

#### Patrons

1. Dr. K. M. Vasudevan Pillai, Chairman & CEO MES
2. Mr. T. S. Kathayat, President, Welspun Corp. Ltd., Parel, Mumbai
3. Mr. Jayanti Sanghvi, MD, M/s Sanghvi Forging, Vadodara

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4. Dr. Vivekanand Kain, Head Corrosion Div., BARC
5. Dr. Anil Bhardwaj, GM, M&C, IEOT, ONGC, Panvel,
6. Mr. P. D. Bahukhandi, ED(QC), IOC, Mumbai
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9. Mr. Sandeep H. Vyas, GM, RGTIL, Navi Mumbai
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14. Mr. Parikshit Gupta, Director, OHT Ltd., Navi Mumbai
15. Dr. Pankaj Kumar, Sr. Manager, LPS Ltd., Haryana
16. Mr. Rajesh Patilpate, VOLTAS LTD., Thane
17. Mr. N. Kumar, MD, Indraprastha Gas Ltd., New Delhi
18. Mr. Subodh Bonde, Director, Subodh Technologists, Rabale

#### Organizing committee

1. Mr. C. Tandi, Executive Director, IEOT ONGC / Chairman SFA Mumbai Chapter
2. Dr. Ajit Bhandakkar Chief of Lab, HAL, AURDC, Nashik / Secretary SFA Mumbai Chapter
3. Mr. Niraj Kumar, Scientist HWD BARC / Treasurer SFA Mumbai Chapter
4. Prof. R.C. Prasad, Convener & Vice Chairman SFA Mumbai Chapter
5. Mr. Shridhar S. Deshmukh, PIIT Panvel
6. Ms. Sonali Parida, PIIT Panvel

#### List of Speakers

1. Prof. R.C. Prasad, PIIT Panvel
2. U.S. Prasad, Vice President-R&D, Anand Teknow Engg., Pune
3. Prerana Fernandes Mr. Sámi Mulla, Sanjay Goel, Vice President-Works, JSW Vasind
4. B.R. Galgali, P.M. Kulkarni, S. B. Joshi, Tata Motors Ltd.
5. P.B. Joshi & Paresh Haribhakti, Managing Director, TCR Advanced, Vadodara
6. Ajit Bhandakkar, Chief of Lab, HAL, AURDC, Nashik
7. Shridhar Deshmukh & R.C. Prasad Professor, PIIT Panvel
8. A. Kujur, A. Sharma, J. Gupta & A. Bhardwaj, General Manager IEOT, ONGC Panvel
9. Hepin S. Chhaya, Head, Business Development, ISM, Thane





# Society for Failure Analysis

[Registration No. 97/2008/HYDERABAD]



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Dr. Baldev Raj, PSG Institutions, Coimbatore  
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Dr. Amol A. Gokhale, DMRL, Hyderabad

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Prof. VS Raja, IIT-B, Mumbai  
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Shri S D Lagavankar, RCMA (Nasik), Nasik

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Website: [www.sfaindia.com](http://www.sfaindia.com)

The Society for Failure Analysis was established in the year 2006 with the patronage from many eminent experts with a mission to reduce failures that are estimated to cost 3-4% of GDP in a developing country.

## Aims & Objectives of SFA

- Promote, encourage and develop growth of "Art and Science of "Failure Analysis".
- Stimulate interest in compilation of database for effective identification of root causes of failures and their mitigation.
- To serve as a common forum for individuals, organizations and industries interested to investigate root cause of failures.
- Establish liaison with Government, academic and research institutions, commercial bodies and individuals on methodologies of failure analysis and render help.
- Collaborate with appropriate international organizations for the promotion of common objectives.
- Train personnel to conduct systematic failure analysis.
- Identify and recommend areas for research and development in the country, to prevent failures.

In order to fulfil the above objectives, the society organises lectures, workshops, clinics, conferences, seminars, colloquia and courses related to failure analysis at different regional chapters spread across the country and networks with professional bodies, in addition to bringing out periodic newsletters.



For the first time, the Theme-Symposium on Failure Analysis is being jointly conducted by The Society for Failure Analysis and The Indian Institute of Metals during the NMD-ATM 2014. For further details about the society, kindly see the web page: [www.sfaindia.org](http://www.sfaindia.org).



**DR. K. M. Vasudevan Pillai**  
Chairman & C. E. O  
Mahatma Education Society



**DR. Daphne Pillai**  
Secretary  
Mahatma Education Society

## Mahatma Education Society

The Mahatma Education Society (MES) embarked upon its mission of 'Education of All' with Chembur English School in the year 1970. The mahatma Education Society is proof of a vision linked irrevocably to national goals. Born in a time when education was deemed service, it set about bringing social and economic change through the proactive personal development of every child that came into its fold. The vision, dedication, global outlook, tenacious struggle and undaunted spirit of Dr. K. M. Vasudevan Pillai (Founder, secretary and CEO) and Dr. Daphne Pillai (Joint Secretary and Rector), the Trust grew from a single school into a multi-institution, multi-location group delivering quality education at all levels.

Today MES owns and manages over 48 institutions spread across six elegant campuses at Borivali, Chembur, Powai, New Panvel(W), New Panvel(E) and Rasayani. It manages educational Institutions' from pre-primary to post-graduation. It comprises of schools, international schools, degree colleges, night colleges, Management Institutions, Engineering colleges, Architecture colleges, colleges of Education (including Physical education) and polytechnic Institutions. Popularly known as the Pillai Group of Institutions, this education major has its own teacher training institutes, which allow it to define its own standards and to achieve 100% results unfailingly, The group has more than 35,000 students, 2,000 teachers and 1500 members of support staff.

It does so through a highly motivated faculty, a learning environment powered with the latest technologies, a spirit of innovation that sees it reach for the highest standards of accreditation in its field, and an approach that recognizes the sharing of knowledge remains the finest manifestation of a unified world. The Pillai Group is credited with several "firsts" in its field.



# Mumbai, India

Local Member Community

The Global Voice of Quality™

## Seeking Sustainable Success:

ASQ Integrates Quality and Social Responsibility

in Primary, Secondary, and Higher **EDUCATION**

**Join ASQ Education Division and Create Future of the Country by Offering Quality Education**

**Develop Quality Tools that Increase Critical Thinking and Problem Solving Skills for Students**

**Prepare Students and Professionals to Cope with Career Challenges and Opportunities**

ASQ, formerly known as the American Society for Quality and the American Society for Quality Control (ASQC), is a knowledge-based global community of quality professionals, with nearly 80,000 members dedicated to the promotion and advancement of quality tools, principles, and practices in their workplaces and in their communities

<b>Formation</b>	February 16, 1946
<b>Type</b>	Professional association
<b>Purpose</b>	To promote the use of techniques to improve organizational quality
<b>Headquarters</b>	Milwaukee, Wisconsin
<b>Region Served</b>	Worldwide
<b>Services</b>	Certification, training, conferences
<b>Membership</b>	80000 (approximately) (2013)
<b>Main organ</b>	Board of directors
<b>Website</b>	<a href="http://www.asq.org">www.asq.org</a> ( <a href="http://www.asq.org">http://www.asq.org</a> )

### Be the Voice of Quality

ASQ traces its beginning to the end of world war II for sustaining quality improvement techniques. In the year 1970 it diversified to manufacturing and other industrial processes and focused on products and services to meet technical specifications. In the 1980s it embraced broader discipline aimed at leading, inspiring and managing a broad range of business and activities with a focus on excellence.

Today ASQ is a global organization with members in more than 140 countries including India. ASQ connects through Local Member Community and supports workshops, conferences and meetings throughout the year.

ASQ India also works in the academic sector and has signed MOUs with many institutions, to collaborate in building awareness in preparing students and professionals to cope with career challenges and opportunities. It works with educators, administrators and industries to promote quality in technical education that will develop approach to triple bottom line issues.

The Pillai Institute of Information Technology Panvel and the Society for Failure Analysis – Mumbai Chapter associated with ASQ India through Mumbai ASQ LMC Chair Mr. T.S. Kathayat in organizing ASQ Webinar Series on Leadership Excellence and an one day National workshop on “Failure Analysis of Fasteners” on August 22, 2015 at Conclave of PIIT Panvel.

The details of the completed webinars and the National workshop on “Failure Analysis of Fasteners” with photographs are enclosed





## Program Itinerary

08:30 to 09:00 h	<b>Registration</b>
09:00 to 10:15 h	<b>AGBM</b>
10:15 to 10:30 h	<b>Tea Break</b>
	<b>Session I (10:30 to 13:00 h)</b>
10:30 to 11:30 h	<b>An Overview of Failure Analysis of Fasteners</b> - Prof. R.C. Prasad, PIIT Panvel
11:30 to 12:00 h	<b>Processing of Clean and Defect Free Steels.</b> - Mr. U.S. Prasad, Vice President, Anand Teknow Engg., Pune
12:00 to 12:30 h	<b>Characterization of Galvanized Products</b> - Ms. Prerana Fernandes Mr. Sámi Mulla, Sanjay Goel, VP Works, JSW Vasind
12:30 to 13:00 h	<b>Fasteners in Automobile Industries: Case Studies</b> - Mr. B.R. Galgali, P.M. Kulkarni, S. B. Joshi, Tata Motors Ltd.
13:00 to 14:00 h	<b>Lunch Break</b>
	<b>Session II (14:00 to 17:00 h)</b>
14:00 to 15:00 h	<b>Root Cause of Fastener Failures in Different Industries.</b> - Mr. P.B. Joshi & Paresh Haribhakti, MD, TCR Advanced, Vadodara
15:00 to 15:30 h	<b>Development of High Strength Aerospace Fasteners</b> - Mr. Ajit Bhandakkar, Chief of Lab, HAL, AURDC, Nashik
15:30 to 15:45 h	<b>3D Printing of Fasteners</b> - Mr. Shridhar Deshmukh & Prof. R.C. Prasad PIIT Panvel
15:45 to 16:00 h	<b>Tea Break</b>
16:00 to 16:30 h	<b>Environmental Assister Cracking of Austenitic Stainless Steel Fasteners : Some Case Studies</b> - Mr. A. Kujur, A. Sharma, J. Gupta & A. Bhardwaj, GM IEOT, ONGC Panvel
16:30 to 17:00 h	<b>Save Flanges, Nut and Bolts from Corrosion</b> - Mr. Hepin Chhaya, Head, Business Development, ISM, Thane
17:00 to 17:30 h	<b>Closing session &amp; High Tea</b>
17:30 to 18:30 h	<b>ASQ-LMC Meeting</b>

## Presentations during National Workshop on “Failure Analysis of Fasteners” (FAF-2015)



Convener of the Workshop Prof. R.C. Prasad welcomed the delegates & presented “An Overview of Failure Analysis of Fasteners”



Mr. U.S. Prasad Vice President- R&D Anand Teknow Aids Engineering India Ltd. delivered lecture on “Processing of Clean and Defect Free Steels”



Ms. Prerana Fernandes JSW Steel Coated Products Ltd Vasind Works delivering lecture during Technical Session.



Mr. P.M. Kulkarni Lead-Plant Quality Material Engineering, Tata Motors Ltd. delivering a presentation on Fasteners in Automobile Industries: Case Studies.



Mr. Paresh Haribhakti Managing Director TCR Advanced Vadodra delivering lecture on “Root Cause of Fastener Failures in Different Industries”



Dr. Ajit Bhandakkar Chief of Lab, HAL, AURDC, Nashik delivered lecture on “Development of High Strength Aerospace Fasteners”

## Presentations during National Workshop on “Failure Analysis of Fasteners” (FAF-2015)



Mr. Abhay Kujur Chief Engineer (M), Materials & Corrosion Section, IEOT, ONGC Panvel, delivered lecture on “Environmental Assisted Cracking of Austenitic Stainless Steel Fasteners : Some Case Studies”



Mr. Hepin S.Chhaya, Head Business Development ISM delivered lecture on “Save Flanges, Nut and Bolts from Corrosion”



Dr. K.M. Vasudevan Pillai Chairman & CEO Mahatma Education Society & Patron of FAF-2015 (front row extreme right) during the Technical Session



Participants took keen interest in the Research Centre of PIIT Panvel & demonstration on 3D Printing of Fasteners. A group photograph of the participants with Mr. T.S. Kathayat President Welspun & ASQ-LMC.

### Why Innovation?

- Global Change
- Digitization
- Market Change
- Social Change
- Perfect Storm of Change

*It is not the strongest that survive,  
nor the most intelligent,  
but the one most **responsive** to change.*

- Charles Darwin





## Personalia

**Prof. R.C. Prasad, Dept. of Mechanical Engineering, PIIT Panvel was resource person for one day on July 9, 2015 for the**

**ISTE Approved One Week Short Term Training Program**  
On  
*"Computational Methods in Mechanical Engineering"*

Monday, 06 July 2015 to Saturday, 11 July 2015




Venue: Conference Hall

Organised by

Department of Mechanical Engineering  
Pillai HOC College of Engineering & Technology, Rasayani,  
Dist. Raigad, Maharashtra

Fracture Mechanics , NDE & Failure Analysis: Applications in Research & Industries	
July 9, 2015	Program & Course Coverage
09:15 to 09:45 h	Tea and Breakfast
09:45 to 12:30 h	Session I Prof. R.C. Prasad, PIIT Panvel
Lecture Coverage	<ul style="list-style-type: none"> <li>Conventional Design Vs. Defect Tolerant Design.</li> <li>Introduction to Linear Elastic &amp; Elastic Plastic Fracture Mechanics.</li> <li>Fracture Mechanics Studies of Fatigue, Corrosion Fatigue &amp; SCC.</li> <li>Surface Modification to Improve Corrosion &amp; Fatigue Life.</li> <li>Fracture Mechanics, NDE &amp; Integrity Assessment.</li> <li>Modes &amp; Mechanisms of Failure.</li> </ul>
12:30 to 13:15 h	Lunch
13:15 to 16:15 h	Session II Prof. R.C. Prasad, PIIT Panvel
<ul style="list-style-type: none"> <li>Hand outs</li> <li>Poster Presentation</li> <li>Demonstration of Test Procedures</li> </ul>	<ul style="list-style-type: none"> <li>Fracture Toughness &amp; Toughening Mechanisms of Composites.</li> <li>Experimental Determination of <math>K_{IC}</math>, <math>J_{IC}</math>, CTOD, <math>K_{ISCC}</math>.</li> <li>Failure Analysis &amp; Failure Analysis Diagram.</li> <li>Some Case Studies of Failure in Industrial Components / Oil &amp; Gas / Power Plants etc.</li> </ul>
16:15 to 17:00 h	Non Destructive Testing and Evaluation: Dr. A. Bhandakkar
Bio-data of Speakers	
Prof. R.C. Prasad	Ph. D. IISc Bangalore, M.Tech. IIT Madras, B.Tech. BIT Sindri Life Member & Vice President of Society for Failure Analysis Member American Gear Manufactures Association Independent Director M/S Sanghvi forging, Vadodara
Areas of Specialization	Fatigue, Fracture Toughness, Fractography, Failure Analysis, Fracture Mechanics, Welding, NDE, Stress Corrosion Cracking, Corrosion, Fatigue, Hydrogen Embrittlement, Heat Treatment, Composites, Bio Materials and Implants
Dr. A. Bhandakkar	Senior Manger, HAL Nashik

## Forthcoming events

- The third topic of the webinar "Effective Time Management" shall be presented live by Dr. Manu K. Vora on September 16, 2015 during 9.00 am to 10.15am at the Conclave of Pillai Institute of Information Technology Panvel.
- Celebration of quality month in November 2015
- One day National workshop on "Integrity Assessment and Failure Analysis of Line Pipe Steels on February 28, 2016.



**ENHANCING PERFORMANCE IN EDUCATION THROUGH INNOVATION AND CONTINUOUS IMPROVEMENT**

QUALITY EDUCATION CONFERENCE & WORKSHOP (QECW) NOVEMBER 14 – 16, 2015 | HOUSTON, TX



# Society for Failure Analysis

[Registration No. 97/2008/HYDERABAD]



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Shri Parikshit S. Gupta, Om Heat Treatment  
Pvt. Ltd., Navi Mumbai  
Shri Sanjay Patil, Mahindra Sanyo Special Steel  
Pvt. Ltd., Khopoli  
Dr. Pankaj Kumar, , Lakshmi Precision Screws  
Ltd., Rohtak

## Advisors:

Dr. Vivekanand Kain, Head Corrosion Division,  
BARC, Mumbai  
Dr. Priam Pillai, COO, PCE , Panvel

## Contact us at:

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The Society for Failure Analysis was established in the year 2006 with the patronage from many eminent experts with a mission to reduce failures that are estimated to cost 3-4% of GDP in a developing country. The Mumbai Chapter of SFA started on November 2014 to serve industries interested to investigate root cause of failures thus improve the quality of products to fulfil the this objective the society organises lecture, workshops, clinics, seminars and courses related failure analysis. The details of the activities of the Mumbai chapter are listed on the web page: [www.sfa.mes.ac.in](http://www.sfa.mes.ac.in).

The first AGBM of SFA Mumbai Chapter was held on August 22, 2015 at the Conclave of PIIT Panvel. The meeting was presided over by Mr. C. Tandi ED IEOT and Chairman of the SFA Mumbai Chapter.



Chairman SFA Mumbai Chapter Mr. C. Tandi ED IEOT, ONGC Panvel addressing the AGBM in the presence of Prof. R.C. Prasad Vice Chairman







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Shri Sanjay Goel, s, JSW Steel Coated Products  
Ltd.  
Shri Nitin Amte, Essar Steel India  
Shri Amit Kumar Singh, RCMA(AA), Pune,  
Shri Subodh S. Bonde, Subodh Metallurgicals  
Pvt. Ltd., Rabale Navi Mumbai  
Shri Parikshit S. Gupta, Om Heat Treatment  
Pvt. Ltd., Navi Mumbai  
Shri Sanjay Patil, Mahindra Sanyo Special Steel  
Pvt. Ltd., Khopoli  
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## NATIONAL WORKSHOP ON COMPOSITES : FRACTURE TOUGHNESS, NDE & FAILURE ANALYSIS



Dignitaries seating on the dais during inaugural function from left to right: Dr. Priam Pillai, COO MES, Shri C. Tandil, ED, IEOT, ONGC Panvel, Dr. K.M. Vasudevan Pillai, Chairman & CEO MES, Dr. R.I.K. Moorthy, Principal PCE and Prof. R.C. Prasad, Convener and Vice Chairman SFA Mumbai Chapter



A group photograph of the invited speakers and delegates from industries taken at the end of session

