

JITU C. PATEL, CPEA



Mr. Jitu C. Patel is a Senior Consultant with over forty five years of experience in Safety, Health & Environment field with chemicals, oil & gas corporations. For 21 years, Mr. Patel has provided health & safety professional services to Aramco; a major Oil & Gas producing & processing corporation in Saudi Arabia. He directed a team of Safety Engineers providing safety support to one of the world's largest refineries, master gas gathering and recovery plants and also to their associated multi-million dollar modernization & expansion projects.

Mr. Patel provided technical training and conducted research for 15 years in the field of fire & explosion, health and environment issues at a heavy chemical manufacturing company owned by UK Oil companies, for safe processing, storage and world-wide distribution of company products, such as, Chlorine, Bromine, halogenated hydrocarbons, Anti-Knock gasoline Lead additives, Hydrogen, Caustic and Acids.

Mr. Patel prepared many safety audit reports at heavy chemicals, oil & gas corporations. He developed and conducted Fire & Safety seminars for benefit of Safety & Fire Prevention engineers and line management of industry operations, maintenance & engineering organizations. He is an author of many papers, which are presented at International conferences and published in technical journals of high repute.

Mr. Patel assisted in developing Safety Engineering Standards for Middle East countries. He contributed in preparing, reviewing and coordinating Corporate General Instructions, Safe Operating Instructions, Fire & Safety Engineering standards, Accountability Reports, and Business and Operating Plans.

Mr. Patel acted as a member or a chairman of many incident investigations. He was a member of the Safe Operations and Laboratory Safety Committees at Associated Octel Co., UK and Aramco. He was a member of the Toxic & Flammable Gas Detector Sensor Development Committee of Users & Manufacturers at the SIRA Institute, London.

Mr. Patel was a Steering and Organizing Committee member, speaker and a session chairman of the 5th, 6th, 7th, 8th & 9th Professional Development Conferences organized by the ASSE Middle East Chapter. He is a Senior Board Advisor to the Executive Board of the Arizona ASSE Chapter. He was a member and a speaker of the International Advisory Committee of the Bhopal Gas Tragedy 20th Anniversary Process Safety Conference – December 1-3, 2004, steered by the President of India and organized by the Indian Institute of Technology, India. He was a moderator and a speaker at the Safety Expo-2005, 2006 & 2007 conferences by the SCF of Arizona and ASSE Arizona Chapter. He was a speaker at the ASSE's PDC in June 2006 at Seattle, WA.

Mr. Patel has a BS (Honors) in Chemistry & Physics and an M.Phil in Energy & Fuel Science from Leeds University, UK. He is a Certified Professional Environmental Auditor (CPEA) for Health & Safety of the Board of Environmental Professional Certification (BEAC), USA. He is an executive board member of the Training & Education Committee of the BEAC. He is a Professional Member of the American Society of Safety Engineers and a pioneer founding member and three times President of the ASSE Middle East Chapter and also recently a founder of the ASSE Philippine Chapter and currently ready to launch the ASSE India Chapter. He is an executive member of the ASSE International Practicing Specialty Board. His State and US National level health & safety contributions were recognized awarding him with the Howard Hiedman Award for a 2006-2007 - Arizona ASSE Safety Professional of the Year. Mr. Patel is also honored with the highest and most prestigious award of a Fellow of the ASSE.

Mr. Patel is the Chief Consultant to Bill Sims Company, USA, HSE Director, Dallah Human Skills Development, KSA, Senior Principal Consultant with AcuTech Consulting Group and is also an executive member of the ASSE Council Member & Regions Affairs Global Committee.

Jitu C. Patel, CPEA **Major Accomplishments**

Leeds University, Gas Engineering & Fuel Science Department, **Houldsworth School of Applied Sciences, UK:** (1964-1967)

Jitu was a member of the UK Leeds University faculty in the Applied Sciences specializing in Fuel Science and Flame Chemistry. His earlier research work was for benefit of improving fuel efficiency in jet-propelled engines and also had application to domestic cooking range and industrial boilers burner design for the use of the then recently discovered North Sea gas.

- ❖ Jitu's research work on "**Mechanism of Pyrolysis of Methane**" and "**Stability of methane/oxygen flames**" resulted in to a Thesis which was awarded with a Master of Philosophy that was published by Leeds University.
- ❖ A paper was published on "**Single Droplet Combustion**" in the Journal of Combustion & Flames, USA
- ❖ Jitu taught Flame Chemistry and continued research as a faculty member in the position of an Experimental Officer.

Associated Ocel Co. Ltd., Stanlow, Ellesmere Port, Cheshire, UK: (1967-1980)

Jitu conducted research for 13 years in the field of fire & explosion, health and environment issues at Associated Ocel, a heavy chemical manufacturing company **owned by UK Oil companies**, for safe processing, storage and world-wide distribution of dangerous company products, such as, Chlorine, Bromine, halogenated hydrocarbons, Anti-Knock Lead additives for gasoline, Hydrogen, Caustic and Acids. His research work produced vast number of formal study reports published and distributed within the corporation and outside under his name as applied to many industry situations attempting to reduce injury, property damage and continued safe production with added environmental friendly benefits.

- ❖ Jitu worked in the R&D Dept as a Technical Officer conducting research as part of trouble shooting for a safe production and also for determining “what went wrong” in case of mishaps resulting in to process upsets emitting toxic reaction products and offered solutions for a controlled process with a back up total containment and recycle of toxic materials as contingency plan.
- ❖ Jitu’s work studying flammable properties of concerned company products and other associated materials were published: "Flammability Limits of Halogenated Hydrocarbons"; Journal of Inst. of Chemical Engineers, UK
- ❖ Much of Jitu’s research work was published in the report forms distributed for use at various in-company plants located within the UK and abroad:
 - Possible Formation of Alkyl Lead Nitrates on Ocean going Bulk Carriers
 - Evaluation of Self-Indicating Soda Lime for the Adsorption of Chlorine and Hydrogen Chloride from Explosimeter Inlet Stream
 - Testing of Company Materials to the Requirements of the Highly Flammable Liquids & Liquefied Petroleum Gases Regulations - 1972.
 - Removal of Lead Alkyls from Air Streams by Reaction with Ozone or Nitrogen
 - Flash points of Antiknock Compounds in Accordance with American Regulations
 - Reactions of TEL & Methyl Chloride on the Surface of Stainless Steel Wire
 - Self-Ignition Temperatures of Lead Alkyls and Antiknock Compounds in Nitrogen or Air Atmospheres
 - The Use of Explosimeters in Atmospheres Containing Lead Alkyl Compounds
 - Properties of Combustible Liquids & Vapors
 - Flammable Regions of TML/Toluene - Hydrocarbons or Halogenated Hydrocarbons Air Systems
 - The Use of the MSA Model 2 Explosimeter in Atmospheres Containing Lead Alkyl Vapors
 - The Use of Methane for the Calibration of MSA Explosimeters
 - The Use of the Sentox-2 Model DOC Continuous Gas Detector in Atmospheres Containing Lead Alkyl Vapors
 - The Use of the Draeger Gasalarm in Atmospheres Containing Lead Alkyl Vapors
 - Flammable Limits of Oxygen-Deficient Systems Containing 80/20 TML Toluene (TCV Atmospheres)
 - Evaluation of the Gasotrans Model G70 Flammable Gas Detector
- ❖ Evaluation of suitability of commercially available PPEs for handling organo-metallic lead compounds (tetraethyl and tetramethyl lead) and working with the manufacturers for ideal protection requirements
- ❖ Engaged in conducting considerable research in the development of toxic and flammable gas detection sensors
- ❖ Evaluation of suitability of commercially available gas detectors for gas plants and refineries handling hydrocarbons containing H₂S and also gasoline blending facilities for handling organic lead compounds such as TEL & TML and advising successfully the manufacturers, not only

- representing the employer but also as a member of the SIRA Institute, London, for considering manufacturing reliable and trustworthy personal monitors and detectors with their calibration protection requirements.
- ❖ Vast amount of times were spent in researching and advising the production management for a safe operation, storage and transport of heavy corrosive, flammable and toxic chemicals (Cl₂, Br₂, Na, Hg, Pb, their metallic and halogenated compounds and also organo-metallic reaction products involved in manufacturing processes from fire & explosion, toxic and environmental impact potentials.
 - ❖ Responded and handled emergencies having organo-metallic (lead) poisoning potentials and engaged in training personnel in safe handling of lead AK compounds and the resultant emergencies refineries world-wide.
 - ❖ As a member of the R&D Laboratory Safety Committee made significant contributions for conducting hazardous/dangerous experimental work by large number of chemists, technologists and engineers at laboratory and pilot plant scales assisting them in accomplishing injury free experiments.

Arabian American Oil Company (ARAMCO), Loss Prevention Department, Dhahran, Saudi Arabia: (1981-2001)

Jitu provided health & safety professional services for 21 years to Aramco - a major Oil & Gas corporation in Saudi Arabia. He directed a team of Safety Engineers providing safety support to Aramco's refineries (Ras Tanura, Jeddah...,) major gas gathering and recovery plants (Juaymah, Berri...) and bulk crude oil and its products' storage and tanker loading terminals (Ras Tanura Terminal) and to their associated multi-billion dollar expansion and modernization and construction projects.

- ❖ Identified wrong usage of the combustible gas detector (JW Sniffer Model G) giving false sense of safety and security offering solution by educating management successfully replacing the program with a continuous 3-in-1 gas detectors as personal monitor as well as utilizing it reliably for a safe confined space entry having potential for hazardous asphyxiation, flammable and toxic conditions.
- ❖ Initiated and assisted in preparing Aramco Engineering Standards for fixed installations of an hydrogen sulfide (H₂S) toxic and Combustible Gas Detectors applicable company-wide hydrocarbon facilities. The implementation of these standards was ensured by including them as part of the design and construction of existing and new facilities providing training for their maintenance and calibration requirements coupled with the emergency response preparedness in case of alarm conditions.
- ❖ Introduced and trained in Safe Handling of Anti-Knock lead compounds (Tetraethyl or Tetramethyl lead additives for gasoline) and also in hazardous Leaded gasoline storage tanks cleaning operations for protecting workers from being exposed to lead poisoning conditions offering successfully monitoring programs.
- ❖ Provided health and safety management programs including heavy involvement of developing refinery and gas plants operating instructions coupled with associated training of employees at all levels implementing them successfully that resulted in to achieving over 10 million safe man-hours without any lost time injury which also was followed subsequently by another milestone accomplishments of over 6.5 million safe man-hours without any

lost time injury during my employment with Aramco covering one of the largest (530M barrel processing capacity) refinery in the world.

- ❖ Two huge major hydrocarbon gas gathering and recovery plant operating including fractionation facilities of Aramco (Ju'aymah & Berri Gas Plants), which were also provided with the similar health and safety management programs under my jurisdiction, also won many Gas Process Association awards.
- ❖ Jitu was also responsible for providing safety management advice, supervision and monitoring of various multi million-dollar major refinery, and gas plants' expansion and modernization construction capital projects.
- ❖ Participated as a Member or chaired a large number of accident investigations that occurred during my time with Aramco.
- ❖ Provided on-site advice and assistance to gas plant management successfully in controlling and containing a major gas plant disaster involving fire and explosions that lasted for seven long days resulting in to fatality, property damage of \$65 million and production loss for almost 11 months. Subsequently, continued the same during dismantling and disposal of the involved gas plant that was in abnormal potentially dangerous conditions. Furthermore, was responsible working with both the project construction and the operations management for a safe completion of the project during re-building of the same gas plant?
- ❖ As part of the preparations for the Desert Storm during 1990-91, was heavily involved working successfully in developing Hostility, Emergency/Contingency and Evacuation plans pertaining to major hydrocarbon oil & gas producing and processing facilities and also assisting both aramco management and the local community residents in safe and orderly execution of the plans.
- ❖ Jitu was also involved during and after the Desert Storm - War in monitoring atmospheric pollution caused by the burning 900 Kuwaiti oil wells and also in the clean up of the oil contaminated beaches and seawaters.
- ❖ Authored and/or reviewed many health and safety related Corporate General Instructions, Refinery Operating Instructions and Engineering Standards
- ❖ **Conducted Safety Inspections/audits of major gas plants and refinery Facilities during 1981 - 2001:**
 1. Over 50 Corporate level health, fire & safety Compliance Reviews/Audits
 2. Over 750 Process Plant Facilities/Operations' Quarterly Safety Inspections/Audits
 3. Over 500 Contractor Fire & Safety Inspections/Audits of Capital Construction Projects
 4. Over 200 Mechanical Completion Compliance Certificate Inspections of major construction Capital Projects
 5. Over 15,000 Permit to Work Compliance Reviews/Audits
- ❖ **Developed and taught Work Permit & Gas Testing Certification Programs to about 40,000 work permit Issuers and Receivers (say 2000 per year)**
- ❖ **Conducted about 300 special reviews concerning Permit to Work, Chemicals, Crane Operations, Welding, Laboratory, PPE's, Relief Valves, Emergency Response Preparedness, Self-contained Breathing Air, Mechanical Shops, Gasoline Blending Plant facility safety (Lead Poisoning and later MTBE concerns) Loss Prevention/Safety programs of operating facilities and also contractors working within the facilities**

- ❖ Developed and authored numerous scripts for preparing on-the-job safety films as training aids relevant to hydrocarbon facilities, and, also for traffic safety, off-the-job home and recreation safety for employees company-wide and also for benefit of Aramco Community residents.
- ❖ Developed and conducted nearly 150 4-day and/or 5-day Fire & Safety Engineering, Laboratory Safety, Accident Investigation, Process & Projects Safety Inspections/Audit, Emergency Response and Preparedness, Construction Safety, Leaded Gasoline Tank Cleaning, Off-the-Job Safety, Office & Home Safety Ergonomics, Basics of Loss Prevention etc. training courses for benefit of approximately 3250 fresh operations, maintenance and engineering support technical staff and line management supervisors, and, also as refreshers for others including line management of refineries, gas plants, oil & gas producing and processing facilities including crude oil and products and LPG storage and transport terminal facility organizations as part of their professional development programs
- ❖ Attended with active participation in nearly 700 Safe Operations Committee meetings of major oil refineries and gas plant organizations of Aramco.
- ❖ Initiated, developed and implemented Laboratory Safety Programs at all Aramco hydrocarbon quality control laboratories and company medical/hospital facilities.
- ❖ In 1982, initiated and assisted in founding the then the first and the only foreign ASSE Middle East Chapter and served the chapter in various Board positions for example as an Assembly Delegate, Secretary, Vice President, President-Elect and three times as a President of the Chapter till retiring from Aramco on November 30, 2001.
- ❖ Organized, supported, executed and participated in "Drug Abuse & Rehabilitation" campaigns in the Middle East.
- ❖ Organized, supported, executed and participated in "Vehicle Driving and Traffic Safety Weeks" in Saudi Arabia.
- ❖ Promoted and organized, supported, executed and participated in off-the-job safety programs such as "Home Safety", "Sports & Recreation Safety", " Child Safety" for Aramco and the local community in Saudi Arabia
- ❖ In 1987 during his presidency of the ASSE-MEC, the Honors & Award Nomination Committee led by Jitu successfully nominated Younis Slail, Manager of Aramco Loss Prevention for a Fellow of the ASSE. Jitu was also instrumental in nominating and recommending Hussain Tadayan, President, Bahrain Petroleum Company for a Safety Professional of the Year award during 2006.
- ❖ Assisted in establishing a non-profit Bahrain Health & Safety Group in the Kingdom of Bahrain and provided technical support as needed playing a role as an adviser, member and a speaker in organizing joint PDCs with ASSE Middle East Chapter.
- ❖ Assisted in establishing a non-profit Bahrain Society of Engineers in the Kingdom of Bahrain and provided technical support as needed playing a role as an adviser, member and a speaker in organizing joint PDCs with ASSE Middle East Chapter and also conducting a 3-day Process & Project Fire & Safety Inspection Seminar.
- ❖ As a president, conference organizer, speaker and session chair of the millennium 5th PDC by the ASSE-MEC, Jitu hosted Frank Perry, President, ASSE, who witnessed the functioning of the Chapter and the huge success of the PDC as a keynote speaker of the conference held in Bahrain.

Since Retirement:

Jitu offers health & safety consulting and training services since retirement to oil, gas, petrochemical & chemical industries, educational and government agencies:

- ✓ Develop Loss Prevention Programs for existing and new facilities.
- ✓ Perform Fire & Safety Reviews for existing and new facilities.
- ✓ Conduct special safety audits for facilities in general or conduct specific reviews on special topics of interest.
- ✓ Develop, upgrade &/or evaluate Emergency Response Plans for existing & new facilities including evacuation plans for grass root facilities.
- ✓ Develop, upgrade &/or evaluate Intermittent & Continuous Fixed Toxic and Flammable Gas Detection systems.
- ✓ Develop or review Laboratory Safety Programs.

Professional Contributions:

Jitu advised and assisted the ASSE-Middle East Chapter on an on-going basis as a member, speaker and session chair and as an international conference adviser to practically all the PDCs held during its 25 years existence including the most recent millennium, 5th, 6th, 7th and 8th Safety Expos - PDC Conferences on health, safety & environment and fire protection (HSE & FP) at Bahrain. Jitu is serving as a Senior Board Advisor to the Executive Board of the Arizona ASSE Chapter. He has worked with so many distinguished people including US & UK Ambassadors to Saudi Arabia and Bahrain, Ministers of the Kingdoms of Saudi Arabia and Bahrain, Chief Executive, the Health & Safety Executive, UK and in the recent years with Presidents of ANSI, ASSE and OSHA, and also with Don Smith, President & CEO, SCF of Arizona, Gary L. Visscher, US Chemical Safety and Hazard investigation Board Member, William (Jack) Jackson, President, Zion Consulting Co., San Antonio, TX, USA, Bill Sims, Jr. President, Bill Sims Company, SC, USA and many more for keynote speakers at the ASSE-MEC PDCs in Bahrain.

Jitu has published and presented many technical and health, safety & environment related international papers in the UK Chemical Engineering and US Combustion & Flame journals, in addition to papers on "Hazards & Safe Handling of Pyrophoric Materials", on "Installation of Fixed H₂S and Combustible Gas Detectors", on "World Oil Business with a Focus on the Middle East", on "Loss Prevention in Process, Construction & Any Other major Industries", on "Job Safety Analysis", on "Summer Safety", on "Heat Related Illnesses" on "Loss Prevention in Process & Construction Industries", "Basics of Loss Prevention" and "Principles and Procedures of Loss Prevention" and much more at various US Universities (ASU, Grand Canyon, Community Colleges) Safety Expo's - PDC's, and also to other industry and business community and interested safety professional groups within and outside of the USA.

Since 2002, Jitu has authored many health & safety articles, just to name a few; "Basics of Loss Prevention" for benefit of FNIB's Safety News Letter and on "Basics of Loss Prevention" and "LP Principles & Procedures" were published by South Nevada ASSE Chapter News Letter. The ASSE Arizona and Nevada Chapters also publish these articles. Jitu's articles were published in San Antonio, Dallas Fort Worth, Austin and Houston Construction News - The Industry Newspapers. An Article on the "7th PDC in Bahrain" was published in the ASSE-PSM issue of May 2006 and ASSE-IPS publication "WORLD FOCUS". Some other articles were prepared and published for

benefit of the general community dealing with various safety, security and health topics.

A five-day seminar on Basics of Loss Prevention & Safety Audits/Inspections has been taught in Dubai to safety professionals and other technical staff of Abu Dhabi National Oil Co. (Adnoc) and other UAE industries.

Three-day seminars on Process & Projects Safety Inspections were taught in Bahrain to Engineering, Operations and Maintenance technical and line-management staff and also their health & safety and fire prevention/protection specialists from Saudi Aramco, SABIC and other major GCC Oil, Gas & Petro-chemical and Construction Corporations organized by the ASSE Middle East Chapter.

A three-day seminar on Process & Projects Safety Audits/Inspections was taught in Bahrain to Engineering, Operations and Maintenance technical and line-management staff and their health & safety and fire protection specialists of Bahrain Petroleum Co. (BAPCO), and other major industries in Bahrain including Construction companies which was organized by the Bahrain Engineers Society.

Twenty (20) one-day seminars on Ergonomics of Home and Office Safety were taught to the technical, Human Resources and upper management staff of Kuwait Petroleum Corp. (KPC) and its Subsidiaries.

Provided safety services to KPC on upgrading their Safety courses. Also, developed a manual specifically for teaching Ergonomics of Home & Office Safety course for benefit of employees of the KPC and its subsidiaries.

Three-day seminars on Fire & Safety Engineering Inspection were taught in Bahrain to Engineering, Operations and Maintenance technical and line-management staff and also their health & safety and fire prevention/protection specialists from Saudi Aramco, SABIC and other major GCC Oil, Gas & Petro-chemical and Construction Corporations organized by the ASSE Middle East Chapter at the 8th PDC in February 2008 and also during June 30th, July 1st & 2nd, 2008.

ASSE-IPS Contributions:

Jitu is an active member of the Board of the ASSE- International Professional Specialty (IPS). As a pioneer and founder member, Jitu continues to act as an advisor to the ASSE Middle East Chapter. He participated in the recent ASSE-MEC's 5th, 6th, 7th and 8th PDC's as a Conference Organizing Committee member and also as a speaker and a technical session chair. At a request by the ASSE's Regional Senior VP (now President-Elect) Warren Brown, Jitu was heavily involved in assisting the ASSE - Kuwait Chapter. He is dedicated working hard with safety professionals in Europe encouraging, guiding and assisting them to form European Chapters starting with an ASSE Italian Chapter. Similarly, his efforts continue formation of additional ASSE foreign Chapters in countries outside of the USA. He is a member of the Gateway Community College Occupational Health & Safety Advising Committee since 2004. Since retirement from Aramco in 2002, he has mentored several health & safety seminars (awarding 1.2 to 2.2 CEU's) for benefit of safety professionals and industry line management staff of major world Oil & Gas producing and processing

corporations and construction companies engaged in projects associated in their expansion or modernization in the Middle East, India and the South East Asian nations.

Articles written by Jitu have been published in the ASSE - Society's " Professional Safety Magazine" and "WORLD FOCUS", for example, Fellow of the ASSE - Younis Slail, Safety is Good Business - Millennium PDC, and, "Middle East Chapter Hosts Successful PDC in Bahrain", Spring 2006.

Other Additional Professional Contributions:

- Jitu assisted the Kingdom of Saudi Arabia in preparing four safety standards for the Saudi Arabian Safety Organization (SASO) during his stay with Aramco.
- Jitu is a member of the Training & Education Committee of the BEAC and is assisting its Board in many ways including conducting research and working closely with the ASSE on the level and the effectiveness of Webinar training and also in extending recognition by offering the auditors certification program to HSE professionals outside of the USA.
- Jitu is an adviser to Bill Sims Company, SC, USA offering motivation and recognition programs for Achieving Permanent Employee Safety Behavior Change reducing loss time injuries and property damage and enabling quality and increased production,
- Jitu has reviewed the manuscripts of HAZARDOUS MATERIALS/WASTE - PROGRAM GUIDE and SARA Title III Guide books prepared by an undisclosed author and provided his professional comments for considering incorporating in the draft books for uplifting and upgrading them to cover all the applicable legal requirements that are needed to comply with for handling, storage and transportation of Hazardous Materials & Waste.
- Jitu is a Senior Health & Safety Associate representing EuroMaTech (UK), Glomacs & AZTech (Dubai) for Middle Eastern industries.
- Jitu participated, assisted as a volunteer and acted as a Moderator at the "Solutions in Safety Through Technology" Symposium November 2006, Scottsdale, AZ, USA
- Jitu is a member of the 2007 AZASSE Committee working with the Mid-Western University, for improving educational opportunity for the Arizona State health & safety professionals where he is a potential mentor of Health, Fire & Safety Engineering topics.
- Jitu is a Confirmed Noontime 2007 Lecture Series Speaker at the Arizona State University, School of Extended Education, Phoenix AZ.
- Jitu is helping the ASSE-MEC in organizing an international level HSE & FP PDCs in Bahrain throughout its existence of 25 years.
- Jitu has made considerable contributions in curriculum for undergraduate and graduate programs of the Grand Canyon University for offering more relevant, applicable and practical HSE programs to produce professionals of higher value to industry and business community.
- Jitu contributed in curriculum for undergraduate program as a member of the Gateway Community College Occupational Health & Safety Advising Committee.
- Jitu is an author and presenter of many technical & safety presentations. His papers have been published in several international journals such as in the J. of Comb. & Flames, USA; J. of Chem. Eng, UK and Gulf Area Safety. He has presented them at International symposia or conferences.

- Jitu was a member of the Safe Operations and Laboratory Safety Committees at Associated Octel Co, UK and Aramco.
- Jitu was a member of the Toxic & Flammable Gas Detector Sensor Development Committee of Users & Manufacturers, UK.
- Jitu was a member of the International Advisory Committee and a speaker at the Bhopal Gas Tragedy 20th Anniversary Process Safety Conference organized by the Indian Institute of Technology.
- Jitu is a senior board advisor to the executive Board of the ASSE Arizona Chapter.
- Jitu is a member of the ASSE International Practicing Specialty Board.
- Jitu was a moderator and a speaker at the Safety Expo's-2005, 2006, 2007 and 2008 organized by the SCF of Arizona and AZASSE.
- Jitu was a speaker at the ASSE's 2006 PDC at Seattle, WA.
- Jitu's health & safety contributions were recognized by the ASSE Arizona Chapter awarding him with a Howard Hiedman Honor for a 2006-2007 Arizona ASSE Safety Professional of the Year.
- Jitu is a Certified Professional Environmental Auditor (CPEA) for Health & Safety of the Board of Environmental Professional Certification (BEAC), USA. He is a board member of the Training & Education Committee of the BEAC.
- Jitu's recommendation was approved by the Board of BEAC to extend professional recognition outside of the USA. He initiated and developed a presentation dealing with the EHS Auditing Overview, What does the EHS Auditing Overview include, Who needs to be audited and Why, Who performs EHS audits, How the auditors' competency is verified, to introduce Board of health & Safety, environment and Management Auditors Certification (BEAC) together with the Auditing Roundtable to the international HSE professional community. Jitu addressed 700 delegates of the 8th PDC in Bahrain that was organized by the ASSE Middle East Chapter offering certification program to the professionals in the Middle East region. His presentation is utilized outside of the USA extending professional recognition to world nations.

Jitu has a Bachelor of Science Honors degree in Chemistry and Physics and a Master of Philosophy degree in Fuel Science from University in the UK. He is an Emeritus Professional Member of the ASSE.

Community/Social Services:

Jitu serves as a main coordinator for the Golden Association of Phoenix Arizona (GAPA). He is the president of the Seniors Group of Indo-American Cultural & Religious Foundation of Arizona. He organizes, directs and assists in conducting the weekly meetings on a regular basis for the Common Interest Group-Seniors whose mission is to promote healthy, safe and happy living.

Jitu organizes seminars for various seniors groups (IAF, GAPA, Phoenix City Seniors) dealing with Prevention and Remedies for Eye Problems, Shoulder Problems, Diabetes Problems Cardiac/Heart Problems and Prostate & Incontinence problems and also acted as a guest speaker on many health & safety related topics.

Jitu has authored Health Awareness articles on Living-Will & Medical Power of Attorney, which were published in the monthly Valley India Times in AZ. He has conducted Workshops in conjunction with the Hospice of the Valley with a success of nearly hundred and fifty (150) people making a Living Will. Also, he has authored articles "Inspiring to Save a Life of a Child" dealing with the importance of Cord Blood Storage, which were published in the Valley India Times, AZ and also in the monthly magazines published in Dallas, TX, with a successful result of increasing parental awareness in the minority community living in the USA.

Jitu writes articles on a regular basis as a Columnist for the last few years on activities of the seniors including related health & safety topics, which are published each month in the Indo-American minority community Newspaper - Valley India Times, AZ. Over fifteen thousand copies of the paper are distributed throughout the Arizona State Indo-American Community with a copy to all IAF ran in the USA.

Jitu makes contributions to Home Owners Association in Phoenix, AZ in matters related to public safety and children injury prevention in particular.