



Energy and Environmental Division Newsletter

April 2015



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Message From the Chair

Last November, ASQ headquarters distributed the results of its latest voice of the customer member survey. The top requests expressed by

Energy and Environmental Division (EED) members are for (1) more information on industry trends, (2) more education and training opportunities, and (3) more networking opportunities. Our goal in 2015 is to enhance the quality of our service to members in each of these areas.

Industry Trends – The diversity of the industry sectors represented by EED members presents a challenge for us to adequately address the various industry trends. In the energy sector field alone, there is nuclear, fossil, oil and gas, solar, wind, etc. In the environmental field, there are even more diversified interests.

While recently reviewing a listing of new EED members, I noticed that one individual worked for IATA. I subsequently did an Internet search for IATA and was surprised to discover that the International Air Transport Association (IATA) had established an environmental assessment program based on environmental management system principles, such as those in ISO 14001. A description of this program and links to their website are included in a separate article in this newsletter.

I was totally unaware that such a program existed and simply stumbled across it during a Google search. I suspect that there are numerous other quality-based initiatives that would be of interest to EED

members if we only knew about them. Consequently, I invite any EED member to submit a newsletter article on similar quality-based initiatives that they believe would be of interest to the membership.

Another source of current industry trends and initiatives are industry specific e-newsletters that are readily available at no cost to provide. As an example, the Power Engineering website (<http://www.power-eng.com/index/subscribe.html>) allows individuals to subscribe to the following e-newsletters:

- *Power Engineering*
- *Nuclear Power International*
- *Renewable Energy World North America*

Education and Training Opportunities

– EED will be sponsoring technical sessions at the World Conference on Quality and Improvement (WCQI) in Nashville, TN, in May and at the ASQ Technical Communities Conference (TCC) in Orlando, FL, in October. Unfortunately, the vast majority of EED members are unable to attend these events. Consequently, webinars may be the best approach to deliver the information.

Last year, EED offered one webinar concerning the oil and gas industry's response to the Deepwater Horizon oil spill. It was our first attempt. This year we're hoping to provide additional webinars, and we would welcome any suggestions and/or offers to provide webinars.

We'd also like to be able to inform EED members of appropriate industry-specific, quality-based training opportunities offered

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by other organizations. As an example, the NUPIC meeting on June 16 – 18, 2015, in Henderson, NV, at the Green Valley Ranch Resort represents an excellent opportunity for those quality professionals involved in the nuclear power industry. Check out their website at <https://nupic.com/nupic/home/futuremeetings.aspx>.

Share your suggestions with us and we'll share them with the EED membership.

Networking Opportunities – While face-to-face networking is preferable, the Internet probably offers the best options for interacting with other EED members. A separate article included later in this newsletter provides information on the EED website discussion board and EED LinkedIn community.

Our ability to provide quality services to the membership is directly related to the resources available. While money is certainly a factor, volunteers are certainly the most important resource needed. More volunteers allow us to provide better or more services. If you have the time and are interested in getting involved in EED leadership activities please contact me. If you don't have the time but are interested, you can still make a contribution by providing your input—a newsletter article, an idea, an opinion.

Tom Mudge,

ASQ EED Chair 2015

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Editor's Note

EED Members:

The Energy and Environmental Division (EED) is committed to serving its members and sharing information and news. EED invites you to submit an article on any of the following quality subjects OR a related subject you believe would be of interest to EED membership. This includes all aspects of quality including planning, operations, maintenance, assessment, standards, etc. Non-EED members are also welcome to submit proposed articles.

- Environmental applications, including sampling, analysis, waste, and engineered solutions
- Nuclear energy
- Conventional energy: coal, gas, natural gas, etc.
- Solar and geothermal energy

Please submit your proposed article to me at worthington.jeffrey@epa.gov.

Thank you,

Jeffrey Worthington

ASQ EED Newsletter Editor

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TRANSFORMING THE WORLD THROUGH INNOVATION, INSPIRATION, AND LEADERSHIP

2015 WORLD CONFERENCE ON QUALITY AND IMPROVEMENT

May 4 – 6, 2015 | Nashville, TN

ASQ World Conference on Quality and Improvement

This year's World Conference on Quality and Improvement will be held on May 4 – 6, 2015 at the Gaylord Opryland Resort & Convention Center in Nashville, TN. The Energy and Environmental Division will once again have a booth represented by members of the EED council and will also sponsor a hospitality

suite. If you're attending the conference, please stop by and say hello.

The EED annual business meeting will be held on Sunday, May 3, at 3:00 p.m. at a location to be determined. All EED members are welcome to attend. We hope to see you there.

2014 ASQ Technical Communities Conference

The Energy and Environmental Division sponsored a full track (consisting of four technical sessions) at the ASQ Technical Communities Conference (TCC) held on October 30 – 31, 2014, at the Wyndham Orlando Resort, Orlando, FL. Program details and PDF copies of the presentations can be viewed at the conference website (www.asqtconference.com).

EED will also be sponsoring a full track at the 2015 TCC that will be held at the same resort in October. Details on the program content will be provided in our next newsletter after the speakers and topics of the technical sessions are finalized.

EED Networking Options

The results from the 2014 ASQ voice of the customer survey indicate that many EED members are looking for more networking opportunities to interact with other EED members. The Energy and Environmental Division currently has 1,726 members worldwide. That's a significant pool of experienced quality professionals who might have an answer to help solve/address your quality issues. The question is: How can you best utilize that resource?

While the best networking is conducted face to face, for most of us, such opportunities are limited. Electronic networking through the Internet most likely offers the best option. EED currently provides two options for electronic networking: the EED website discussion board and LinkedIn. Both of these options enable you to post a question and request a response.

Unfortunately both options are under-publicized and underused. Although EED has 1,726 members, only 33 members have signed up for the discussion board and only 19 members have signed up for LinkedIn. We hope this article will trigger more interest in and use of these tools. Check them out at the links provided below. You'll probably find that the information is dated, but don't be discouraged. Give it a try. You just might solve one of your problems.

<http://asq.org/ee/interaction/discussion-board-ee.html>

<https://www.linkedin.com/groups?home=&gid=4353734>



International Air Traffic Association Initiates Environmental Assessment Program

The International Air Transport Association is an organization that represents some 250 airlines comprising 84 percent of global air traffic. The organization has initiated an IATA Environmental Assessment (IEnvA) program based on environmental management system principles, such as those contained in ISO 14000. A complete description of the program is posted on IATA's website (www.iata.org/ienva). An online news brief (www.iata.org/pressroom/pr/Pages/index.aspx) posted on January 13, 2015, described the program's progress. For convenience, a copy of the news brief is reprinted below.

News Brief: IATA Environmental Assessment Program Gathers Momentum

Geneva - The International Air Transport Association (IATA) announced that five airlines have recently successfully completed stages of the IATA Environmental Assessment (IEnvA) program. IEnvA is an innovative, voluntary, two-stage evaluation process designed to drive airline environmental performance improvements through independent assessment.

- Finnair and South African Airways have completed the IEnvA Stage 2 assessment, the highest level of IEnvA achievement. This ensures that an airline has implemented all of the IEnvA Program Standards, identified and mitigated its significant environmental impacts, and has set performance targets. Stage 2 also certifies that an airline has developed processes for monitoring and reviewing its performance against its environmental targets and objectives.
- Icelandair, Qatar Airways and SriLankan Airlines have completed IEnvA Stage 1 which ensures an airline has established a foundation and framework for its environmental management system. Stage 1 also certifies an airline has identified and complied with its environmental legal requirements.

These five airlines join a growing number of carriers that have already successfully completed IEnvA Stage 1 Assessments, namely Air Transat, Kenya Airways, LATAM, LATAM Cargo and Malaysia Airlines.

"In addition to safety, environmental responsibility is the highest priority for the industry. The new IATA Environmental Assessment sits alongside our industry-wide carbon-reduction targets as a program for ensuring airlines not only meet, but also exceed their day-to-day operational environmental obligations and performance. Our congratulations to Icelandair, Qatar Airways, and SriLankan Airlines for completing Stage 1,

and I would particularly like to commend Finnair and South African Airways for being the first to complete the Stage 2 assessment. These airlines are among the pioneers in this critical new program. IATA's audits and assessment schemes are impartial, independent evaluations designed to improve industry performance against global benchmarks. The IATA Operational Safety Audit has done much to help improve airline safety and we expect that the IEnvA will do the same for environmental standards," said Tony Tyler, IATA's director-general and CEO.

The IEnvA program uses environmental standards and recommended practices developed specifically for the aviation sector by a joint team of environmental experts from within and outside the industry. These are based on recognized environmental management system principles, such as ISO 14001. Assessments are conducted by accredited independent organizations with competencies in aviation and environmental auditing.

IEnvA has been developed in conjunction with airlines so that it addresses industry needs and specific concerns. IEnvA assesses environmental performance against sustainability standards across a broad range of disciplines, including (but not limited to) the management of air quality and emissions, noise, fuel consumption and operational efficiency, recycling, energy efficiency, sustainable procurement, and biofuel utilization. As a result, IEnvA helps airlines to simplify regulatory compliance, demonstrate good governance and achieve financial savings from the better use of resources. The program adopts a modular approach, initially focusing on flight operations and corporate activities at a global level with later expansion into other activities including catering, ground operations and maintenance, repair and overhaul (MRO).

The IEnvA Program is complementary to the aviation industry's four-pillar strategy for addressing climate change impacts. In 2009 the industry agreed to cap emissions through carbon-neutral growth from 2020, and cut net emissions by 50 percent (compared to 2005) by 2050, through a combination of technology and operations improvements, better use of infrastructure, and the implementation of a global market-based measure.

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