

risks to DoD are put on a Watch List, a dynamic list which currently contains 50 ECs, and an impact assessment is conducted to examine risk in five cross-functional areas – environment, health and safety; system acquisition and research, development, testing, and evaluation; production, operation, maintenance, and disposal of DoD assets; site restoration; and training and readiness. ECs with high and medium risks are moved to the Action List for further examination and development of risk management actions (RMAs). There are currently 11 ECs on the Action List, including two polyfluoroalkyl (PFAS) chemicals (PFOA and PFOS) and greenhouse gases such as sulfur hexafluoride. RMAs can take several forms: policy directives on use of an EC, research and development to develop and evaluation alternative chemicals or processes, or regulatory engagement.

restrictions that complicate the supply chain. Lastly, the growing body of international chemical management regulations can adversely impact DoD's ability to operate and maintain weapon systems at overseas bases by reducing access to mission-critical chemicals. Click here to learn more about the Chemical and Material Risk Management Program.

universal framework. Version 3 of this Guidance was published following the April 2019 Annual Meeting in San Diego. Version 3 of the Guidance provides further clarification for aerospace and defense companies throughout the value chain, includes additional considerations not previously addressed, and fills some key gaps in existing reporting standards (read the recent news release). The Guidance will continue to evolve with expectations and best practices to adequately serve the needs of the aerospace and defense industry throughout the supply chain. The Guidance will also retain its "Built on GHG Protocol" mark, which signals to key stakeholders that the information found in the Guidance

is in accordance with the WRI GHG Protocol standards. IAEG member companies who choose to use the Guidance may reference it as an

WG1: Materials & Substances Declaration New Tools Published To meet the demand of increasingly complex, global chemical substance regulations and restrictions, aerospace and defense companies are burdened with reporting product-related substance data in multiple formats. We are pleased to announce that IAEG has released new tools to help the global aerospace and defense industry and their supply chains gather required information more efficiently and effectively. For more information, please see the <u>IAEG Press Release</u>. WG8: BREXIT Risk Analysis Wrap Up BREXIT is an abbreviation for "British Exit," referring to the United Kingdom's (UK's) decision in a June 23, 2016 referendum to leave the European Union (EU). The EU REACH Regulation imposes rights and obligations on a wide range of actors in the chemical supply chain, including importers. Since BREXIT creates a new border between the UK and the rest of the EU, new REACH obligations will come into play in upstream supply chains, which can be costly and resource-intensive to fulfill, leading to risk of supply chain collapse. BREXIT, therefore,

has potential business continuity impacts for the aerospace and

EU prior to the exit date. The majority of respondents lacked

regarding the UK's new chemical regulations, requirements, and

chain and sourcing strategies, critical processes evaluations,

world.

compliance costs.

suppliers.

defense industry, particularly for chemical manufacturers, importers, distributors, and downstream users in the UK, EU, and the rest of the

As part of this process, WG8 surveyed approximately 200 UK and EU chemical distributors and formulators to understand what risks they perceive in the event that a deal is not reached between the UK and

awareness of BREXIT's potential impact on their REACH compliance, had not considered mitigation planning, and were generally uncertain

In response to the survey information, IAEG completed a risk analysis that identified possible REACH compliance shortfalls and potential disruptions for the aerospace and defense chemical supply chain. WG8 then prepared a list of considerations based on these potential risks that included increased supply chain engagement and business planning measures in the areas of: obsolescence identification, supply

monitoring of BREXIT developments, supply chain information sharing,

Value of Membership

As a liaison member of IAEG, we have found the April IAEG Face-to-Face meeting and the exhibitor area extremely useful to network and

business at SAFECHEM. As our message is linked heavily to the safe and sustainable use of certain chemicals, we found the perfect match with the group base and mission of IAEG. The biggest takeaways from San Diego were the comments made by Sally at the beginning of the meeting with regard to efficiency. SAFECHEM puts a great deal of emphasis on creating resource efficient solutions that consider a

Circular Economy approach, and values IAEG's focus on collaboration

IAEG is proving to be an excellent platform for SAFECHEM to address

production, mostly relating to legislative pressures facing the use of

components, topics covered extensively in WG2. Risk Management tools and the discussion of safer alternatives are topics that IAEG is raising awareness of through suppliers like SAFECHEM. We strive not only to comply with regulations but also to do so with the best technical solutions that will continue to provide quality and reliable products to

some of the specific issues facing the aerospace sector during

certain chemicals critical to the safe production of aerospace

end users. IAEG is creating a platform to collaborate with other

applications, which will meet all regulatory needs and ultimately

produce quality products that are more resource efficient.

member companies on a technical level to create safe and sustainable

Upcoming Events

LE BOURGET

2019

connect with various people on the specific topics relating to our

A Message from SAFECHEM

to streamline the efforts of member companies.

AIR SHOW **IAEG Breakfast Presentation** Thursday, June 20th, 2019

> 9:00 am to 11:30 am Le Bourget Auditorium

CLICK HERE TO REGISTER

September 23 - 26, 2019 **European Experts Needed:**

<u>IPC</u> is seeking European involvement in the IPC 2-18k Committee for

management of standard IPC-1754, Materials and Substances Declaration for Aerospace and Defense and Other Industries.

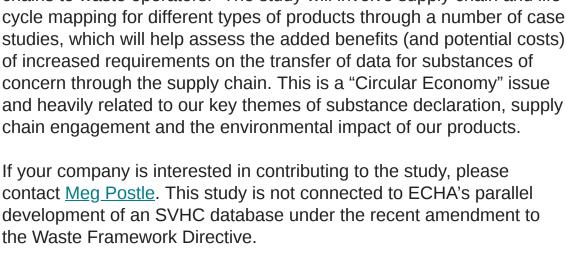
IPC 2-18k Committee

meetings.

Prague, Czech Republic

If you are interested in joining the European IPC 2-18k subcommittee, contact Richard Shanks (Co-Chair & IAEG Liaison to IPC 2-18k). Members of this new subcommittee would be full voting members of IPC 2-18K. Participation in the committee is open to any interested

REGISTER



the LIFT Newsletter will recognize IAEG Work Groups' most companies. What's New in IAEG **Announcing WG10** Environmental Qualification Program for Suppliers which will develop an Environmental Qualification Program for suppliers in the aerospace supply chain regarding environmental performance and risk management. This new work group will: 1. Create a regularly updated sectorial set of criteria that define reporting and performance.

DoD and the CMRM Program are working to tackle the next big challenges to identify, assess, and mitigate mission risks from chemical regulation and material availability. Managing Big Data and supply chain information issues vertically and horizontally is a topic common to IAEG and DoD; the CMRM Program is investing in resources to improve data management and the ability to define EC uses. Societal concerns over ECs that create public outrage shrinks the larger consumer market and can adversely impact DoD's ability to acquire or use these mission-critical substances. Expanding regulatory footprints with differing stringency at differing scales (i.e.,

state vs. international) results in a patchwork of regulations and

IAEG Excellence Awards Congratulations to our award recipients, who were recognized for their outstanding contribution to an IAEG Working Group or to the organization as a whole.

IAEG In Action

WG3: GHG Management and Reporting

requirements, stakeholder expectations, and corporate environmental management practices are contributing to increased momentum to account for and reduce greenhouse gas (GHG) emissions from

operations, industrial processes, and throughout supplier value chains.

practice. Based on preliminary research, approximately 90 percent of IAEG full member companies publically reported GHG emissions in 2018. IAEG's WG3 provides resources, tools, and leadership on GHG

reporting and management to support this focus on environmental

WG3's main objectives are to promote industry-wide GHG emissions accounting and reporting, and to streamline these efforts by providing educational materials and tools for voluntary consideration and usage. In support of these objectives, WG3 has developed a GHG Reporting

Guidance for the Aerospace Industry document. This document provides a common framework of rules, methodologies, vocabulary, and relevant recommendations for GHG accounting and reporting to supplement the World Resources Institute's (WRI's) GHG Protocol

Corporate Accounting and Reporting Standard, which is now a

sustainability practices throughout the aerospace and defense

As global attention to climate change heightens, regulatory

Public reporting of GHG emissions is an increasingly common

Who We Are and What We Do

industry.

additional reporting and management methodology in disclosures such as CDP Climate Change. Learn more about WG3's objectives and deliverables <u>here</u>.

We are pleased to announce the release of our 2018 Annual Report. The Report highlights our 2018 accomplishments and previews our 2019 plans.

VIEW HERE

and mitigation strategy planning. This information was compiled by WG8 into an educational fact sheet and shared in three global webinars, attended by approximately 150 IAEG members and Originally slated for March 29, 2019, the UK's exit date was recently extended by the EU to October 31, 2019. Learn more about BREXIT and other WG8 projects here.

The Paris Air Show is the world's largest event dedicated to the aviation and space industry. Join us for a breakfast presentation on June 20, during which we will provide interested and/or prospective IAEG members with an overview of IAEG's mission. vision, and core activities, and the value of becoming a member of IAEG. To register, contact <u>Christer Hellstrand</u>. Save the Date: Fall Face-to-Face Meeting

<u>IPC-1754</u> is the basis of IAEG's materials and substances declaration process and support resources, and is critical to declarations in the aerospace and defense industry and its supply chain. While IAEG did not publish IPC-1754, it is a critical, enabling tool for our members and our supply chain moving forward. Decisions on data structures, adaptations based on regulation changes, and alignment with other existing or future database requirements (such as ECHA's Waste Directive database) will be important topics of future committee

party; IPC membership is not required. Call for Input: European Commission Feasibility Study The European Commission (with Oekopol Institute and their partner RPA) will be conducting a feasibility study on "the use of comprehensive tools to manage information flows from product supply chains to waste operators." The study will involve supply chain and life cycle mapping for different types of products through a number of case studies, which will help assess the added benefits (and potential costs) of increased requirements on the transfer of data for substances of

Interested in becoming a member? Complete the membership application or learn more about IAEG from the About Us video.

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2. Set up a process to evaluate or audit the environmental performance of the supply chain against the defined criteria. store the evaluation/audit results. getting involved in WG10, contact Christer Hellstrand. WG9: Emerging Regulations Introducing a New Work Group The primary goal of WG9 is to develop an approach to help the operational risk for companies and their supply chains. WG9 participated in their first face-to-face meeting when IAEG

new regulations.

June 19, 2019

operational efficiency across the aerospace and defense

Chair Sally Gestautas discussed IAEG's focus in 2019 on

added value to the industry beyond what a single company

IAEG Annual Meeting Keynote Speakers San Diego, CA at the Annual Meeting in San Diego, introduced IAEG members to components of their robust certification programs. Like IAEG, these organizations work toward responsible stewardship and sustainable outcomes for their industries through scale, collaboration, and implementation. The information they shared is particularly relevant given the recent announcement of a new IAEG work group (WG10), which will develop an Environmental Qualification Program for suppliers regarding aerospace supply chain environmental performance and risk management. Dr. Fiona Solomon, CEO of Aluminum International Aerospace Quality Stewardship Initiative (ASI) Group (IAQG) <u>Aluminum Stewardship Initiative</u> Presented by Dr. Fiona Solomon, Chief Executive Officer setting and certification organization committed to maximizing the contribution of aluminum to a sustainable society through responsible production, sourcing, and stewardship of aluminum. It was founded by a multi-stakeholder group that sought to build a standards platform for "responsible aluminum." The organization now consists of <u>85 members</u>, including producers, users, and stakeholders across the aluminum value chain. These stakeholders include nonprofit organizations, nongovernmental organizations, and representatives of civil society, and an Indigenous Peoples Advisory Forum, which liaises with the Board on an annual basis. usage and recycling, is represented in ASI membership companies and considered in its <u>Standards</u>. Engagement with the supply chain allows an increasing focus on the mineral supply chains starting at the mines, reduces duplication of assurance efforts, and allows multi-industry collaboration on best practices regarding transportation, infrastructure, consumer goods, environmental and social topics, and more. development. The result is a third-party certification system that provides assurance of a company's commitment to responsible performance, risk management, and transparency in the supply chain. Certification does not reflect a physical difference in aluminum product, but rather indicates that responsible business processes are taking place according to ASI Standards. As the transportation (including aviation) industry is a major sector for of IAEG members. By becoming members of ASI, IAEG members can implement and promote ASI Standards and support responsible sourcing and stewardship of aluminum in the aerospace sector. For more information on ASI Standards, Certification, and membership, visit their website.

compliance can be assured and supplier impacts can be minimized. policies, and standards and their potential impact on compliance and convened in San Diego, California this past April. Spirited discussion during the daily meetings quickly led to a preliminary process flow for each of the subteams formed within the work group. The subteams represent the three main stages of this process flow: Intake, Prioritization, and Communication. Various global chemical and Subteam, then prioritized within the Prioritization Process Subteam based on risk rating and level of importance to companies. This will sheets and webinars will be developed by the Communications Process Subteam. These resources will be available to member over the prospect of leveraging its outputs to complement, support, and streamline the review processes currently in place at aerospace and defense facilities. Lisa Brown, WG9 Leader, is excited about the services that this work group can provide with 33 member companies participating in its efforts. emerging regulations, please contact: Lisa Brown (Team Leader) or Michel Renault (Deputy Team Leader).

At the April Face-to-Face meeting held in San Diego, Board industry. Through extensive collaboration, IAEG has achieved numerous significant accomplishments and provided significant recent accomplishments, announce the organization's newest working groups, and highlight the value of our work to member IAEG recently announced the formation of a new work group (WG10), environmental performance through Environmental Management Systems, chemical management disclosures, and environmental 3. Develop an aerospace environmental performance database to The tools from this WG10 are intended to be available for voluntary With the number of emerging chemical and environmental regulations increasing, companies must be aware of new requirements so that aerospace and defense industry evaluate these emerging regulations, environmental regulations will be considered within the Intake Process

companies and their supply chains to provide awareness of upcoming WG9 is off to an amazing start, generating a great deal of enthusiasm If you are looking for an opportunity to participate in a work group that can directly benefit your company by providing valuable information on Dr. Fiona Solomon (ASI) and Darrell Taylor (IAQG), keynote speakers their respective organizations and discussed the development and key Mr. Darrell Taylor, former Chair of the The Aluminum Stewardship Initiative (ASI) is a global, non-profit standards-Every step in the aluminum lifecycle, from bauxite mining to post-consumer Creating a robust and inclusive governance model for the organization was a key objective of ASI from its inception. Layers of decision-making include an elected Board and Standards Committee, supporting working groups and engagement mechanisms, and public consultation processes for standards aluminum use, ASI's work has an impact on the supply chain and products <u> International Aerospace Quality Group</u> Presented by Mr. Darrell Taylor, former Chair The International Aerospace Quality Group (IAQG) was established with the purpose of creating a dynamic cooperation between aerospace and defense companies on initiatives to significantly improve quality performance and reduce cost throughout the value stream. Its main objectives are to establish commonality of industry quality systems, implement a process of continuous improvement, share best practices, and coordinate with regulatory and government agencies and other industry stakeholders. In order to achieve these objectives, IAQG established and maintains its Ouality Management System standards and the Industry Controlled Other Party (ICOP) Certification system. ICOP is a globally harmonized Aerospace Qualify Management System (AQMS) Certification process defined by the IAQG and recognized by major aviation, space, and defense companies. The certification scheme utilizes ISO for basic requirements and supplements ISO with requirements unique to aviation, space and defense companies. While certification recognizes quality performance, it does not prevent procurement from poor performing suppliers, nor is it a certification of product. The On-Line Aerospace Supplier Information System (OASIS) is the database in which all information related to ICOP certifications, auditors, guidance, and audit results is stored. While only general information (such as lists of Accreditation Bodies, Certification Bodies, Certified Supplier sites, and Approved Auditors) is publicly accessible in the Data Search section, audit results data is available to specific user groups when authorized by the audited organization. The IAQG organization helped inspire the formation of IAEG. Its management systems standards and accreditation are a great framework to look to as IAEG begins to develop its own evaluation criteria in IAEG's new WG10. <u>Chemical and Material Risk Management Program</u> Presented by Mr. Drew Rak, Senior Environmental Health Scientist Mr. Drew Rak is a senior environmental health scientist at Noblis, a nonprofit science, technology, and strategy organization. For the past 16 years, Mr. Rak has led Noblis' efforts to support the DoD and DHS clients address risk assessment and risk management issues related to chemical management, chemical/biological defense, sustainability, and public health. Drew Rak from Noblis, Inc. addressed the IAEG meeting in San Diego, California on behalf of the Chemical and Material Risk Management (CMRM), Office of the Assistant Secretary of Defense for Sustainment. U.S. environmental and chemical management regulations, as well as international regulations, can limit the United States' Department of Defense's (DoD's) ability to operate and maintain weapon systems by restricting access to mission critical chemicals. The CMRM Program implements a proactive program that recognizes indicators of regulatory action or supply chain limitations, assesses potential risks to DoD, and develops risk management actions. These activities correspond well with IAEG's strategic pillars – substance regulation, supply chain engagement and environmental sustainability – and represent areas where the DoD CMRM Program and IAEG can continue to work. The DoD defines emerging chemicals (ECs) as those for which regulations are being developed or new science indicates risks to the user or environment. Early identification of an EC is key to the successful assessment and management of risk. Those with potential