The world as we know it today is changing rapidly. The decarbonization and digitalization of our sector may induce deep changes to our production methods, in our habits and in our mobility in the future.

Many member companies are investing to reduce the environmental impact of industry activities and of products throughout their life cycle. We therefore believe, more than ever, in a sustainable aviation and space industry that is both clean and carbon-neutral.

The COVID-19 crisis has severely limited our activity. However, due to the regular and active participation of each of its members, IAEG has now become the essential forum for sharing good practices and developing tools and guidance for voluntary consideration and use. IAEG’s work remains key to support this ecological and societal transition. IAEG was initially focused solely on the environment, but with the agreed scope extension to environment, social and governance (ESG) matters this year, we will ensure greater effectiveness in addressing these topics throughout the supply chain. The commencement of a new working group dedicated to risk assessment and ESG engagement of suppliers in the sector appears also to be a new key step in our journey towards sustainability.

Nothing that has been achieved this year could have been accomplished without the outstanding mobilization of our various members. We thank you for your continued support and for your participation in the Working Groups. We must also thank the members of the Strategic Planning Committee, the Executive Committee and the Board. Special recognition must go to Sally Gestautas, our former Chair, for what she has achieved for IAEG. Thank you. But above all, a huge thank you to Christer Hellstrand, our Program Director, for his relentless involvement and supervision of our operations.

Today we are counting on you, even more than before, to be pioneers of sustainable aviation for a safe and united world.

Dr. Bruno COSTES | BOARD CHAIR | IAEG
WG1 remains committed to supporting Aerospace and Defense (AD) companies in dealing with this increasing number of substances of concern in products and related data gathering efforts, which are becoming far more complex in the face of proliferating declaration data elements growth. WG1 proactively participates in industry standards while providing compatible tools to enable AD companies to conduct their substances-in-products declaration campaign process with their respective global supply chain population to identify substance dependencies and manage their potential compliance risk.”

MUSSIE PIETROS  
GE Aviation  
Work Group Leader
2021 Accomplishments

- The Bond Primer Project has launched its second phase. They have updated their report from the first phase of the project to include new project participant’s data.
- The Anodize Seal Project completed all work packages defined in the project statement of work and summarized all in a final report, issued to project participants on 21 April 2021. They proposed changes to SAE AMS2471; proposed changes were accepted by the SAE Aerospace Material Specification (AMS) Finishes, Processes and Fluids committee.
- The Cadmium Plating Project has agreed to a test matrix for testing of electrical connectors with alternative coatings to cadmium and procured samples for assessment within the test programme. Preparation of the test programme started before the end of 2021.
- The Chemical Conversion Coatings (CCC) Project has evaluated four commercially available non-chromated coating solutions through Neutral Salt Fog (NSF) corrosion; Electrical Contact Resistance (ECR), and wet paint adhesion performance testing. Performance test results have been shared between the CCC Project group participants.
- The Fuel Tank Coatings Project has now launched. They have started to review the performance requirements of a fuel tank coating in project participants’ material specifications and industry standards.

2022 Goals

- The Bond Primer Project will complete testing and summarise the results in a technical report.
- The Cadmium Plating Project will complete electrical connector testing and summarise the results in a technical report.
- The Chemical Conversion Coatings Project will carry out more testing in accordance with the needs of the project participants.
- The Fuel Tank Coatings Project will determine the key requirements of fuel tank coatings, share test data on any REACH compliant candidate fuel tank coatings that have been tested with the project team and engage with coatings manufacturers and suppliers to learn of any developments in fuel tank coating materials.

Collaboration by industry experts to jointly develop qualified material substitutions
Cost sharing and common industry solutions developed for voluntary unilateral consideration and use

LAURA WILKINSON
Rolls-Royce
Work Group Leader
2021 Accomplishments
• Beta testing of Scope 3 Purchased Goods & Services and Capital Goods calculation methodology and tool completed.
• IAEG Board approval and subsequent publication of the Scope 3 Purchased Goods and Services and Capital Goods calculation methodology and tool on IAEG.com.

2022 Goals
• A planned review and impact analysis of new norms and regulations related to GHG emissions declarations.
• The release of guidelines for GHG emissions reporting related to Scope 3 Use of Sold Products, for commercial applications.

Greenhouse Gas Management and Reporting

Efficient GHG Scope 1, 2 & 3 reporting, supports industry credibility
Support industry wide collaboration on good practice sharing

As shown in the Conference of Parties (COP) 26 conference on climate change, the reduction of greenhouse gas (GHG) emissions is higher than ever on national and international public bodies’ agendas. Our aerospace sector is under the spotlights to demonstrate how it will master its transition to decarbonized operations. In this context, IAEG WG3 has already produced guidelines for clear and harmonized declarations of GHG emissions by the companies involved in the aerospace industry. We will continue to support them by rolling out our best practises throughout the value chain, and will extend our guidelines to new topics called by the Greenhouse Gas Protocol and other forthcoming norms and regulations.

BRUNO DARBOUX
Airbus Work Group Leader
2021 Accomplishments

- Detailed mapping completed of lead (Pb) compounds from the 7th and 9th recommendation Substances of Very High Concern (SVHCs) for inclusion in Annex XIV (Substances Subject to Authorisation).
- Preliminary mapping completed for 10th recommendation SVHCs for inclusion in Annex XIV.
- Additional mapping of Dechlorane Plus™ completed.
- WG5 SVHC Matrix revised which includes Annex XIV proposals, new additions to Annex XIV and information on any authorisations applied for or granted relevant to aerospace applications.
- WG5 received approval to expand its scope to include assessment of Annex XVII substances (Restricted Substances) where they may have similar impacts to business continuity as Annex XIV substances.

2022 Goals

- Develop additional supply chain mapping reports based on established priorities, including: 10th recommendation SVHCs, anticipated 11th recommendation SVHCs as well as engagement where appropriate with 7th & 9th recommendation lead (Pb) compound formulators.
- Define and incorporate the expanded scope, now including Annex XVII substances, for EU and UK REACH into WG5 activities.

The collaboration between members and the expert analysis of anonymised member data by the external consultants allows member companies to get a realistic idea of how a substance restriction will impact their businesses. In this respect, WG5 participation repeatedly pays dividends in excess of members’ contributions, and the resulting output is a tangible message that can be taken and communicated to a member’s company. The value of this is evident; long time members continue to participate year on year, and new members are regularly attracted.

JOSEPH MCCARTHY
Leonardo
Deputy Work Group Leader
ISO 14001 and Environmental Management System Implementation

2021 Accomplishments
TOOLS AND RESOURCES:
- Published EMS Maturity Framework awareness video
- Translated Resources and Examples into French, Portuguese, German and Spanish
- Board approved verification tool kit
- Developed ‘Environmental Management System Implementation – At a Glance’
- Piloted EMS maturity master list and process

2022 Goals
- Refresh website
- Translate tool kits, EMS maturity master list and process
- Develop EMS Maturity Framework deployment feedback mechanism
- Deployment and implementation

IAEG’s ISO14001 and EMS Implementation program is well thought out and nicely supported with resource materials. This initiative will drive EMS adoption and environmental performance improvements across the aerospace value chain. The published Maturity Framework, Assessor Qualification and Maturity Evaluation tools are designed to support companies in a realistic and pragmatic manner along this journey in order for the industry to achieve the continuous environmental performance we desire. I am proud to be a Work Group member and to support this important undertaking with my fellow IAEG members.”

MONTY LOVEJOY
Ramboll
Work Group Member
Emerging Regulations

WG9

2021 Accomplishments

ISSUED 10 REGULATORY ALERTS:
• EU REACH Annex XVII – Diisocyanate Restrictions
• Taiwan Toxic and Concerned Chemical Substances Control Act (TCCSCA)
• Chinese Ministry of Ecology and Environment Order 15
• Basel Convention Plastic Waste Amendment
• Stockholm Convention EPA 2019 Amendment
• US EPA Final Rules on Five PBT Chemicals and Update
• Kigali Amendment and Global HFC Regulations
• EU REACH Annex XVII Entry 68 – PFCAs
• USA – the phase down of HFCs regulation
• Global PFAS Regulatory Update

ISSUED 2 FACT SHEETS:
• UK REACH Regulation
• US EPA TSCA PBTs

FACILITATED 1 WEBINAR:
• UK REACH

ISSUED 6 NEWSLETTERS:

2022 Goals

• Issue regulatory alerts and supply chain fact sheets based on evaluation and prioritization
• Facilitate webinars
• Publish Emerging Chemical and Environmental Newsletters

Provide updates on global emerging regulations in 30 prioritized countries, provided by 3rd party
Regulatory alerts developed for member companies for their supply chain

Working together with IAEG WG 9 members and service providers is an effective way to identify and provide emerging regulations’ relevant information to IAEG memberships and their supply chain. The newsletter which has been created this year gives a general overview of what is happening in the top 50 countries of interest to the member companies.”

MICHEL RENAULT
Thales Group
Deputy Work Group Leader
It was exciting to celebrate IAEG’s 10-year anniversary throughout 2021. We reflected on the organization’s many accomplishments; shared testimonials from member companies; and expanded our social media presence with a regular cadence of articles highlighting IAEG Workgroup activities. The COVID-19 pandemic still limited our ability to gather together in 2021 and forced members to work in different ways, but the collaboration and productivity levels remained strong. Following are some highlights from our IAEG communications team:

Welcome to several new IAEG BOD members:
- Julien Dezombre
  Bombardier Aviation
- Thibault Normand
  Safran
- Kathleen Oldham
  Bell Flight
- Costa Triantafyllidis
  L3 Harris Technologies
- David Graeber
  Boeing
- Stanley Merritt
  Northrup Grumman

And thank you to all who served previously.

Congratulations to our IAEG 2021 Award Winners:
Congratulations to both the nominees and winners! Members were nominated by their peers for their outstanding contribution to an IAEG Work Group or the organization overall, specifically relating to their contributions to IAEG’s efficiency & effectiveness, strategic development, and customer value. The 2021 winners were:

- Olivier Barret
  Airbus
- Francois Corman
  Safran
- Sandra Gridley
  Raytheon Technologies
- Bruce Griffin
  Boeing
- Cindy Kloehn
  Airbus
- Rick Shanks
  Raytheon Technologies
- Blair Smith
  Raytheon Technologies
- Erin Yaeger
  Raytheon Technologies

Special recognition to Sally Gestautas, Raytheon Technologies, for her lifetime achievement award and Jill Palmer, Northrup Grumman, for her many years of service to the organization.

Strong communications outreach as displayed through:
- Weekly LINKEDIN articles
- Expanded LIFT Newsletter
- Member company testimonials
- Creation of IAEG Value Proposition 1-Pager
- Frequent IAEG Guest Speakers and Webinars

Looking forward to 2022!
IAEG members should be proud of the accomplishments of 2021. Thank you for your dedication and hard work through a year full of challenges. We look forward to seeing what IAEG members are capable of accomplishing in 2022!

Michele Lewis
IAEG COMMUNICATIONS OFFICER

Connect with us on LinkedIn