

Quarterly

NEWS LETTER

AUTUMN ISSUE 2021

BeST

Beryllium Science & Technology Association



Dear Valued Readers,

Welcome to the Autumn edition 2021 of the Quarterly Newsletter!

In this edition, BeST will announce the speakers of our upcoming new webinar dedicated to working safely with Beryllium. The webinar will take place next week and will be in French.

Additionally, BeST will provide an analysis of the Strategic Foresight Report published by the European Commission and the role of Beryllium, as well as an overview of the first EU-US Trade and Technology Council meeting.

Finally, for those interested in the more technical news, BeST will provide a summary of what happened during the 14th International Workshop on Beryllium Technology.

We wish you a very pleasant reading!

Kind Regards,

Prof Dr. Andreas Köster, Chairman of BeST

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BeST hosts English webinar on “Working Safely with Beryllium”

On 9 November 2021 at 14:00 CET, BeST hosted its Webinar “Working Safely with Beryllium”. Ted Knudson, Senior Director of Regulatory Affairs & Product Stewardship at Materion Corporation, well-known expert in the field, informed participants on how to safely work with Beryllium and gave an overview of risk management measures to implement on the work floor.

Want to know more about our Be Responsible Programme?

Check out our dedicated website here.

Mark your calendar for our Be Responsible Webinar in French

Missed out on the English webinar? Don't worry, we also have a French webinar on how to work safely with Beryllium coming up. **Mark your calendars and register to our French webinar on 30 November at 10:00 am CET.**

We are already delighted to announce our experts. Angélique Renier, Communication and Environment Manager at NGK Berylco and BeST's Secretary General, will address occupational health and safety at the workplace and highlight good practices applied to Beryllium, and Patrick Levy, Director of the Pôle Santé and Director of the Health Business Line at SOCOTEC, will address the regulatory situation of beryllium.

Join us to learn more on how to work safely with Beryllium and to meet our exciting experts.

Registration is already open here.

Read more about the Be Responsible Programme on **our French website here.**



Beryllium and the European Commission's 2021 Strategic Foresight Report

In its **Strategic Foresight Report**, titled “The EU’s capacity and freedom to act”, the European Commission has identified key priorities to achieve in the frame of the green and digital transitions.

The objective of the report, published on 08 September, is to help the Commission adapt and improve its priority setting and support the work of the President in developing the Commission's Work Programme. The Commission has identified emerging challenges that will shape the future of Europe and the world, and sheds light on possible policy responses for the EU's open strategic autonomy.

Strategic areas where the EU can strengthen its capacity and freedom to act include, among others: (i) Ensuring sustainable and resilient health and food systems, (ii) Securing decarbonised and affordable energy, (iii) Strengthening capacity in data management, artificial intelligence and cutting-edge technologies, (iv) Securing and diversifying supply of critical raw materials, and (v) Strengthening security and defence capacities and access to space.

Beryllium is a key material for the achievement of many of the areas listed above.

In what way? In the area of health, due to its perfect transparency to X-rays, pure Beryllium metal is essential in high-resolution imaging technology while Beryllium and Beryllium containing alloys are key components of cutting-edge technologies due to their unmatched properties in terms of strength, resistance, lightweight and conductivity. Not to mention the incredible role of Beryllium in the aerospace sector where Beryllium's superior mechanical properties make it an essential material when low weight and high resistance is needed, like in airplanes and satellites. And of course, thanks to its key role in the **ITER project** (nuclear fusion), beryllium is essential to achieve a securing decarbonised and affordable energy, see our article 5 on the 14th International Workshop on Beryllium Technology (BeWS-14) held in California.

Read more on the European Commission's Strategic Report [here](#).

Want to know more on how Beryllium substantially contributes to our lives, check out our **[dedicated webpage here](#)**.

EU & US hold first meeting for TTC

On 29 September, the inaugural meeting of the EU - US Trade and Technology Council (TTC) was held in Pittsburgh, Pennsylvania. The TTC, originally launched at the EU-US Summit in June, aims to serve as a forum for the EU and US to coordinate approaches to key global trade, economic, and technology issues and to deepen transatlantic relations.

The TTC's working groups will tackle a diverse set of challenges, including supply chain security, climate and green technology, and export controls.

Both parties have reaffirmed their commitment in promoting shared economic growth that benefits both sides of the Atlantic. In reference to the working groups established, working groups 3 and 10 specifically address critical raw materials, including Beryllium.

The EU and the US will focus on advancing respective supply chain resilience and security of supply in key sectors for the green and digital transition. As you already know, Beryllium plays a key role in achieving both transitions.

The working group is tasked to seek to (i) increase transparency of supply and demand, (ii) map respective existing sectoral capabilities, (iii) exchange information on policy measures and research and development priorities, and (iv) cooperate on strategies to promote supply chain resilience and diversification.

The two parties will also focus on challenges from non-market economic policies and practices, avoiding new and unnecessary technical barriers in products and services of emerging technology.

Guaranteeing a resilient and secure supply of Beryllium is of outmost importance for the EU industry and, along with the supply of other important critical materials, high on the EU's agenda.

To read the full statement, [click here](#).

14th International Workshop on Beryllium Technology (BeWS-14) – proceedings published

The 14th International Workshop on Beryllium Technology (BeWS-14) was held on 24-25 October 2019 at the Hotel Queen Mary in Long Beach, California in conjunction with the 19th International Conference on Fusion Reactor Materials (ICFRM-19 in La Jolla, California) with great success. The BeWS-14 was organized by Be4FUSION LLC, with significant technical support from KIT (Karlsruhe Institute of Technology) in Germany. There were 49 registered participants, who came mainly from the U.S., Germany, Japan, France, UK, Spain, Portugal, Korea, and Kazakhstan.

Focused workshops like the BeWS only succeed thanks to strong support from organizational sponsors, both financial and those who contribute staff resources to the effort. For the BeWS-14, those sponsors were:

Materion Brush Inc.
Elmore, Ohio, U.S.A.

Be4FUSION LLC
Upland, California, U.S.A.

KAKEN Inc., Laboratory & Test Center
Mito, Ibaraki, Japan

NGK Insulators, Ltd.
Handa, Aichi, Japan

KBHF - Karlsruhe Beryllium Handling Facility
Eggenstein-Leopoldshafen, Germany

KIT - Karlsruhe Institute of Technology
Eggenstein-Leopoldshafen, Germany

The BeWS-14 programme agenda consisted of three keynote presentations, which were followed by five technical sessions. The five technical sessions featured presentations on Alternative Blanket Concepts and Beryllides, Beryllium Materials under Extreme Conditions, Industrial Fabrication, Modeling, and EH&S (Environmental, Health & Safety). EH&S topics had particular emphasis in our program due to strong interest and concerns at ITER. EH&S presentations were specifically solicited that would address trending topics such as Surface Particulate Levels versus Airborne, Beryllium Dust & Explosivity, Be Hazard Risk Identification, and Key Elements for a Successful Beryllium Protection Program.

The Proceedings for the BeWS-14 were published in July 2021 (the publication unfortunately suffered an important delay due to the

COVID-19 pandemic), and they contain 33 technical papers and presentations, 7 of which are specifically about EH&S-related topics. The full document is now available on free public access and **may be downloaded here**.

In the normal sequence of events, the BeWS-15 should have taken place in October 2021, but due to the pandemic, this year's event has been postponed until the autumn of 2022, when the organizers hope that it will be possible to meet again in person. That next workshop will probably take place in Europe, potentially as a satellite meeting in conjunction with a larger fusion conference such as the Symposium on Fusion Technology (SOFT).

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Stay in Touch

The BeST website keeps you informed with a 'Latest News' section, where readers can follow the latest news and features on beryllium.

The news section complements the wealth of information already on the site, on issues such as environment, health, and safety.

Get the latest news on BeST online.

BeST can also be found on Facebook. 'Like' the page and be notified when there is news from our association. Photos of events organized by BeST can also be found on our **Facebook page**.