

# 2020 Virtual

Perlite Institute Annual Meeting



September 15-16, 2020

# Annual Meeting Schedule

## Tuesday, September 15, 2020

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1400 - 1415 | 2:00 p.m. - 2:15 p.m.

### **Welcome**

*Anita Mulqueeney, Perlite Institute President*

1415 - 1500 | 2:15 p.m. - 3:00 p.m.

### **Filtration: Environmental Sustainability in Filtration Process: Spent Filter Aid Reuse and Recycling from a Circular Economy Perspective**

*Dr. Panagiotis Angelopoulos, Perlite Institute Technical and Marketing Consultant*

Circular economy targets in the elimination of wastes and the continual use of resources, while two important practices in this direction constitute wastes' reuse and recycling. Filtration process inevitably involves the production of huge amounts of wastes, while the use of expanded perlite as filter media constitutes a well-established application. Contrary to the conventional waste treatment (disposal), there are various alternatives that allow the valorization of spent perlite filter aid with (recycling) or without (reuse) any treatment. This presentation aims to show most representative practices that are applicable in spent filter media and are capable of drastically eliminating waste production towards more efficient use of filter media and a greener filtration.

1500 - 1515 | 3:00 p.m. - 3:15 p.m.

### **Perlite Institute Filtration Committee**

1515 - 1600 | 3:15 p.m. - 4:00 p.m.

### **EHS Update**

*Ken Wiener, Perlite Institute Health, Environmental and Regulatory Consultant*

Ken will present ways to take advantage of the 3 "R's" – Reduce, Reuse, Recycle – of waste management, mainly for used cryogenic grade perlite. He will also give an update to the Mask and Personal Protective Equipment (PPE) presentation that was distributed earlier this year.

1600 - 1615 | 4:00 p.m. - 4:15 p.m.

### **Perlite Institute Construction Committee**

1615 - 1700 | 4:15 p.m. - 5:00 p.m.

### **Relevance of Mechanical Stability of Perlite in Different Applications**

*Elke Riedl, Product Manager and Key Account Manager, Bublun GmbH*

*DI Dr. Michael Wimmer, Managing Director, Bublun GmbH*

This presentation will address different stresses expanded perlite has to withstand in varying applications. Any magnitude and type of stress (e.g., mechanical or isostatic pressure, shear stress, as well as abrasion) depends on the intended use of perlite in the individual application. A brief overview of potential stresses to be considered in different applications and respective analytical lab methods will be given. Measurement data for different types of perlite (varying in place of origin, bulk density or particle size distribution) will be shown and compared.

1700 - 1800 | 5:00 p.m. - 6:00 p.m.

### **Perlite Institute Annual Business Meeting**

# Annual Meeting Schedule

## Wednesday, September 16, 2020

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1400 - 1415 | 2:00 p.m. - 2:15 p.m.

### **Welcome**

*Anita Mulqueeney, Perlite Institute President*

1415 - 1500 | 2:15 p.m. - 3:00 p.m.

### **The Carbon Footprint of Perlite**

*Chuck Vogelsang, Perlite Institute Technical and Operations Consultant*

Chuck will discuss why perlite producers need to start being concerned about how much CO<sub>2</sub>e they generate. He will review why fuel by weight generates more weight of CO<sub>2</sub>e gases and give a basic comparison of perlite to other materials. In this session, you will learn how to compute an estimate of what is generated during each step of the perlite process from mining, hauling to the ore plant, ore sizing and transport to the expander.

1500 - 1515 | 3:00 p.m. - 3:15 p.m.

### **Perlite Institute Horticulture Committee**

1515 - 1600 | 3:15 p.m. - 4:00 p.m.

### **Horticulture: Water Retention of Expanded Perlite Fines (<1 mm) and Advantages in their Use as a Soil Additive to Save Water**

*Dr. Panagiotis Angelopoulos, Perlite Institute Technical and Marketing Consultant*  
*Reema Bolokbaeva, Sales Manager, Horticultural Division, Gulf Perlite, LLC*

A vital element of sustainable agriculture and landscaping is the efficient use of water in plants. Fine expanded perlite grade can be used for this purpose as has been shown by two studies that were implemented by the guidance of Perlite Institute member, Gulf Perlite. This presentation contains key findings of lab scale testing of field capacity and permanent wilting points of sand and sand-perlite mixture, and a field study where fine perlite was mixed with sand in lawn and shrubs' cultivation.

1600 - 1615 | 4:00 p.m. - 4:15 p.m.

### **Perlite Institute Brochure Committee**

1615 | 4:15 p.m.

### **Adjournment**

*Anita Mulqueeney, Perlite Institute President*