

**ChemBio Shelter, Inc.**

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**Company Representatives at CIM 2015:**

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**Company Profile:**

ChemBio is the original inventor and patent holder of the LifeShelter™ with over 1,600 licensed shelters operating under our patent. The inflatable mine refuge shelter allows 34 miners to survive 96 hours in a gas impermeable tent that provides O<sub>2</sub> production, CO<sub>2</sub> scrubbing, food and water. In 2004, Ed Roscioli, a chemical engineer with a background in the nuclear power industry, founded ChemBio with the intent to provide protection against chemical and biological attacks. On January 2, 2006 ChemBio re-directed their focus as a result of the Sago, WV underground coal mine explosion that trapped 13 miners in a CO filled environment, only one of which survived. By February 2006, one month after the Sago disaster, ChemBio unveiled the LifeShelter™ that allowed miners to seek refuge until rescued. On March 9, 2007, the WVOMHST issued an approval for the LifeShelter™ to be used in all WV underground coal mines. MSHA later passed laws requiring shelters throughout all US underground mines. ChemBio was the first non-Chinese manufacturer to receive approval to use the patented shelters underground, and to date there are over 1,600 shelters throughout the world that is working under the ChemBio LifeShelter™ patent. In addition, ChemBio is the only shelter manufacturer to receive approval from MSHA on a CO<sub>2</sub> scrubbing device.

**Product Lines:**

- **LifeShelter™**

The MSHA approved LifeShelter™ is a rugged, portable, powerless, inflatable refuge shelter that provides 96 hours of breathable air, food and water for up to 34 people. ChemBio is the original inventor and patent holder of over 1,600 licensed shelters in the field, this enables us to provide the lowest cost shelter alternative to the mining industry.

- **Enviro-Curtain**

Passive Carbon Dioxide Scrubbing. Quick, Simple, No Mess. The Enviro-Curtain™ is your solution to removing CO<sub>2</sub> in mine refuge shelters, barricaded areas or sealed confined spaces, using safe soda lime (not lithium hydroxide) for removing CO<sub>2</sub>. No Power Required. Cost 33% less than LiOH curtains. (4) curtains are vacuum packed in one box with stand. Each stand holds up to 16 curtains. Provides 96 hr/person of CO<sub>2</sub> scrubbing. Scrubs 1.08 cubic feet (30 liters) per hour per person. No hazardous waste by-product. 5 Year Shelf Life (Documented aged testing). Box dimensions: 40" X 26" X 2-1/2" for 96 man-hours.

- **Safe Air Borehole Blower**

The "Safe Air" System delivers up to 1,250 CFM of air down a borehole to either Built In Place Shelters or Mobile Refuge Shelters and provides enough air for up to 100 miners.

- **Dozer Kit / Barricading / Confined Space Kit**

The ChemBio confined space/barricade kit provides O<sub>2</sub>, passive CO<sub>2</sub> scrubbing and O<sub>2</sub> monitoring for 6 hours in enclosed or confined spaces. Custom kits are available for multiple people up to 96 hours. Eliminates the need for 1 hr SCSR's required in Dozers operating near underground feeders. Lasts over 6 hrs. Some operators have been trapped for almost 4 hrs. This kit is immune from heat and vibration unlike some of the SCSR's No mouthpiece or mask required. Allows for drinking and communication. 5 year shelf life.

**Objectives(s) at CIM 2015:**

To find end user mine operators.