

# STEM 360 – Growing Opportunities in Changing Environments 2021 Summer Institute

## Keynoters

### Dr. Marion Terenzio



**President - SUNY Cobleskill**

**Monday, 11:35 AM to 12:35 PM (1 PD)**

Dr. Marion Terenzio is the 12<sup>th</sup> president of the SUNY College of Agriculture and Technology at Cobleskill. She has presented at numerous venues, including the United Nations, on the role of effective higher education practices in community well-being and economic revitalization and sustainability. Dr. Terenzio created the *Institute for Rural Vitality at SUNY Cobleskill*; a model program that has been supported by the US Department of Agriculture, receiving national attention for its unique approach

connecting higher education to economic development, community well-being and sustainability.

**The Green Horizon of STEM** - From climate change to world population growth, our efforts in addressing some of the most urgent issues facing our society necessitate a new approach; a consciously crafted interdisciplinary coalition of scientists, policymakers, farmers, and innovators from Agriculture and the STEM fields. The need for such an approach is most evident in the escalation of food insecurity and the increased degradation of agronomic systems worldwide. This keynote will address the critical importance of Agriculture informing the STEM fields and building upon and transforming agronomic, ecological, and biodiverse practices and outcomes. The address will conclude with a call to action that includes early exposure to STEM through agriculture-related topics starting in primary education.

### Bob Bechtold



**President - HARBEC, Inc.**

**Technical Innovation with Environmental Responsibility**

**Tuesday, 11:35 AM to 12:35 PM (1 PD)**

Bob Bechtold is the president and founder of Harbec, Inc., a progressive injection molding company located in upstate New York, which provides a full service of model making, precision mold making, and complex precision plastic injection molding. His company believes strongly in the value of Eco-Economics and during the past decade he has developed an energy management strategy that includes a cogeneration project which

currently provides a portion of their electricity, heat, and air-conditioning requirements, in conjunction with two on-site wind turbines. During the past 15 years, Harbec has attained ISO 9001 certifications for quality control and assurance, and ISO 14000 certification to demonstrate environmental responsibility. Currently, Harbec is focused on quantifying its Carbon Footprint with the help of the EPA's Climate Leaders Program, DOE's Better Buildings - Better Plants Challenge Partner level, and ISO 50001/SEP Platinum certification. They attained Carbon Neutrality in 2013 and Water Neutrality in 2015.

In 2002, Harbec was awarded the EPA Energy Star for Small Business, in 2003 it received the Society of Plastic Engineers' Environmental Stewardship Award, in 2004 the EPA/DOE Green Power Leadership Award, in 2006 NYS Water Environment Assoc. presented to Harbec their Industrial Pollution Prevention Award, and in 2007 they received the NY State Industrial Achievement Award from NYWEA. In 2011 the National Institute for Standards and Technology (NIST) awarded Harbec the National Award for Innovation in Sustainable Manufacturing and in 2012 they received the Manufacturing Leadership Award for Sustainability. The NY State DEC awarded Harbec the 2014 NYS Environmental Excellence Award.

Bob Bechtold will discuss how he integrated the technologies listed in this BIO into corporations and achieved a benchmark in renewable status operating a factory.