

## **2021 NYEI tracks session details**

**Jessica Renee Waltemyer**

**Session assistant: Denise Percey**

### **“LIVE Lambing 101”**

Love looking at Cute Fluffy Lambs? Ever wonder why their tails are short or what the numbers on that ear tag means? In this workshop Jess Waltemyer (Cornell Animal Science Farm Manager) will demonstrate what a sheep producer does in the first few days of life to ensure healthy fluffy lambs for their flock. Learn about the birthing process and tools you need to have a successful lambing, the importance of ewe/lamb bonding, and husbandry/processing steps to ensure healthy lambs.

**Mathew Abraham**

**Session assistant: Andrea Durmiaki**

### **“Feeding 1.5 Billion People: India's Food Security Challenges”**

In the past three decades, India has made significant progress in reducing hunger and malnutrition. However, its food security challenges remain substantial as the country is currently home to 189.2 million undernourished people and has the highest number of malnourished children worldwide. By 2030 India will emerge as the world's most populous nation with 1.5 billion people. India's food security challenge is to address its current hunger burden, keep future generations from hunger, and paradoxically address the growing concern of obesity. The presentation will highlight India's current and future food security challenges and thoughts on possible ways forward.

**Luisa Trujillo & Tanya Montenegro**

**Session assistant: Francine Barchett**

### **"Biodiversity for Human Wellbeing: From the Amazon to the World"**

The Amazon biome is located in South America and encompasses eight countries. It holds more than 10% of the planet's known biodiversity and its rivers discharge 15% of the world's freshwater into the Atlantic Ocean, being an important source of good and ecosystem services. Currently, the Amazon is being threatened by several human activities, which are mainly known as drivers for climate change, biodiversity loss and ecosystem degradation.

In Ecuador, where the Amazon region is a complex matrix of several cultures, communities, landscapes and indigenous ethnic groups, many native species are endangered due to deforestation and introduction of foreign species. Besides, the new generations are not giving the importance to the traditional knowledge and the Amazon are losing their own legacy nurtured for centuries, at the same time, the world might lose food variety.

**Bret Daniel Timmons & Connor John Schmitz**

**Session assistant: Austin Castillo-Leovan**

### **“Controlled Environment Agriculture”**

Description: Tour Cornell's world-renowned greenhouses and interact with the scientists running cutting-edge research! Take a look at research in floriculture, food and protein production, and pharmaceuticals within controlled environments.

**Maricelis Acevedo**

**Session assistant: Anthony Wenndt**

**“Around the World with a Plant Doctor: Protecting Plants from Diseases and Pathogens”**

Description; Take a virtual tour of farmer fields and research facilities around the world where Dr. Acevedo and her team work with scientists and farmers to protect the crop from devastating diseases and pests. Visit the mountains and valleys of Ethiopia and Kenya, the wheat fields, seed facilities in Nepal, and the Bt eggplant fields in Bangladesh to learn more about how science and technology are helping farmers increase yields, protect the environment and improve the quality and safety of their food.

**Nathan Laurenz**

**Session assistant: Hannah Jo**

**“Eating Bugs to Save the World”**

Description; Cockroaches, grubs, and maggots may not be what you think of when picturing a healthy snack, but around the world people consume insects. There is a growing industry of raising bugs for human consumption. This secession will look at how and why people eat insects, and might even convince you to give insects a taste!