

# High Tunnel Vegetable Production

July 9, 2014

Hayden Conference Center, South Carolina Botanical Garden

Clemson University, Clemson, SC

9:00 am – 4:00 pm

High tunnels can be used to extend the growing season and enhance growth, yield, and quality of a wide variety of horticultural crops. Join Steve Moore, high tunnel crop production expert, who will share his research and experience with sustainable high tunnel vegetable production. In addition, Shawn Jadrnicek, manager of the Clemson University Organic Farm, will give an overview of the farm's successful high tunnel production system and lead a tour of the farm greenhouse and high tunnels. Shawn will also describe methods for optimal greenhouse location to maximize sun access and water drainage.

## TOPICS:

High tunnel design and location; managing the microclimate; soil fertility management; disease and insect management; selection of cropping systems and planting sequence; high tunnel crop performance and budgeting.

## REGISTRATION:

The fee to attend this workshop is \$30 for non-extension personnel and \$12 for Extension Personnel which includes handouts and a locally sourced lunch. To register for this workshop please follow this link:

[https://secure.touchnet.net/C20569\\_ustores/web/product\\_detail.jsp?PRODUCTID=550](https://secure.touchnet.net/C20569_ustores/web/product_detail.jsp?PRODUCTID=550)

## INSTRUCTORS:

**Steve Moore** is currently a Lecturer in AgroEcology in the Environmental Studies Department at Elon University, Elon, NC. Previously he was the Small Farm Unit Manager and Agriculture Energy Specialist at the Center for Environmental Farming Systems, NC State University. Steve has over 25 years of experience in sustainable greenhouse and high tunnel crop production, and he has been a pioneer in development of solar greenhouse and high tunnel production systems. He and his family have farmed and gardened organically for over 35 years.

**Shawn Jadrnicek** is the manager of the Clemson University Student Organic Farm with many years of experience as a successful organic farmer including high tunnel vegetable production. Shawn is also an expert in permaculture, landscape design, arboriculture, irrigation system design, and aquaculture. Shawn has designed a novel "Bio-Integrated Season Extension" system for high tunnel vegetable production at the Clemson farm that reduces the amount of fossil fuel-based energy compared to conventional heating systems.

## **Agenda**

9:00 – 9:10 Welcome and introductions (*Geoff Zehnder, CU Sustainable Ag Program*)

*Morning and afternoon classroom sessions presented by Steve Moore, Elon University*

9:10 – 10:30 Designing High Tunnels: Key factors to consider  
Managing the microclimate  
Soil and fertility management options for high tunnel production

10:30-10:45 Break

10:45- 12:30 Managing insects and disease  
Single crop vs. multi-crop  
Selection of cropping systems and planting sequence

12:30 -1:15 Lunch

1:15 – 2:15 Crop performance and yield  
Crop budgets  
Group discussion; Q&A

2:15 – 4 PM Tour of high tunnels at the Clemson Organic farm and overview of methods to determine optimal placement of high tunnels on the farm (*Shawn Jadrnicek, CU Organic Farm Manager*)

4 PM Adjourn