HYDROPONIC INTENSIVE WORKSHOPS
at the Controlled Environment Agriculture Center
March 2018

Lettuce Workshop
March 8th - 11th, 2018

Controlled Environment Agriculture Center
1951 East Roger Road, Tucson, AZ 85719

College of Agriculture
AND LIFE SCIENCES
CONTROLLED ENVIRONMENT
AGRICULTURE CENTER
March 8th, 8:30am – 6:30pm

*Light Breakfast Provided*

Introduction

Tour of CEAC Campus & Analysis of Structures & Systems

Common Questions

Greenhouse Basics
- Greenhouse site selection
- Greenhouse designs & materials
- Environmental control – including sizing heaters & fans

“Greening the Greenhouse”
- Resource use Optimization

Plant protection (Chapter 4)
- Introduction to the pests: Insects, Mites & Diseases
- Integrated pest management (IPM)
- Control approaches

Food safety & GHP/GAP certification (Lewis)
- Safe production & handling procedures

* Lunch provided *
March 9th, 8:30am – 6:30pm
8:30am - Coffee & Previous Day Discussions

Deciphering your greenhouse – “Virtual Grower”
• Projecting heating costs
• Forecasting performance

Crop registration forms
• Data collection and measurements

Environmental control & system maintenance & monitoring
• Set-points and setup
• Monitoring methods
• System maintenance
• Plant/Environment Relationships
• Real-time monitoring – CEAC/tomatoes live

Propagation
• Substrate choices and starting materials
• Seeds and seeding
• Germination conditions
• Scheduling

*Lunch Provided*
March 10th, 8:30am – 6:30pm
8:30am - Coffee & Previous Day Discussions

IPM, Disease, and Deficiencies
- Common pests and treatment procedures
- Diseases common to production
- Nutrient deficiencies

Growing Lettuce
- Nutrition
- Spacing and layout
- Crop maintenance and monitoring
- Harvesting

Post-harvest & Food safety
- Post-harvest procedures
- Packaging, storage, and shipment
- Food safety procedures
- Safe production and handling procedures

Certifications & GHP / GAP
- GHP / GAP
- Certified Naturally Grown, Organic, and other labels
- Audits, check-ups, and maintenance of certifications

March 11th, 8:30am – 6:30pm
8:30am - Coffee & Previous Day Discussions

Economics of production
- Materials costs and consumption
- Operating costs
- Financials

Business Considerations
- Business planning
- Marketing
- Customers and Selling