

# AQUAPONICS TECHNOLOGY AND DESIGN WORKSHOP

Fall 2014 Dates: November 4–8, Apopka, FL



Topics that will be covered during this 4<sup>1</sup>/<sub>2</sub>-day workshop:

## **UVI AQUAPONIC SYSTEM & UVI-BASED SYSTEM AT AQUATIC ECO-SYSTEMS**

- System design and management
  - Aeration
    - Blower selection and sizing
  - Plumbing
    - Pump Selection
    - Total Dynamic Head (TDH)
  - Components
  - Construction techniques
  - Operation
  - Electric Cost

## **FISH PRODUCTION**

- Stocking rates
- Feeding, growth and survival
- Harvesting and processing
- Water quality
- Brood stock management
- Breeding
- Fry sex reversal

## **MARKETING AND ECONOMICS**

### **PLANT PRODUCTION**

- Seedling production
- Importance of pest identification with special guest  
Fred Petitt of Walt Disney Parks & Resorts
- Disease and insect control
- Nutrient dynamics

### **HANDS-ON INSTRUCTION**

- PVC work
- Pump setup and plumbing
- Plant grow tray construction
- Fish handling
- Water quality testing

### **GREEN SKY GROWERS ROOFTOP GREENHOUSE TOUR**

### **“BEHIND THE SEEDS TOUR” AT THE LAND AT EPCOT®**



**AQUATIC ECO-SYSTEMS™**

For more information about educational courses offered by Pentair Aquatic Eco-Systems, please email [PAES.General@Pentair.com](mailto:PAES.General@Pentair.com).

Web: [PentairAES.com](http://PentairAES.com)  
Email: [PAES.General@Pentair.com](mailto:PAES.General@Pentair.com)

2395 Apopka Blvd., Apopka, FL 32703

## AQUAPONICS TECHNOLOGY AND DESIGN WORKSHOP



### DR. JAMES RAKOCY

Dr. Rakocy was formerly the Director of the University of the Virgin Islands (UVI) Agricultural Experiment Station and a Research Professor of Aquaculture. Known as the "Father of Aquaponics," Rakocy obtained his PhD in aquaculture from Auburn University in 1980. Since 1999 the UVI Aquaculture program has offered an International Course on Aquaponics and Tilapia Aquaculture.

"Teaching at the aquaponics course sponsored by Pentair Aquatic Eco-Systems (PAES) was a real treat for me because PAES employees have an incredible depth of experience and knowledge that they share with their students as they guide them through all phases of constructing and operating an aquaponic system to establish a successful hobby or business."

*Dr. James Rakocy, "Father of Aquaponics"*



### DR. WILSON LENNARD

Dr. Lennard is a PhD graduate from RMIT University in Australia with 10 years of practical commercial aquaponics experience and knowledge. He is skilled in research and engineering and has experience in associated aquatic disciplines. His professional scientific career spans almost 20 years.



### DR. FRED PETITT

Dr. Pettitt is the Agricultural & Water Sciences Director for Walt Disney Parks & Resorts. He joined Epcot® during its construction phase and worked to turn *The Land* pavilion from vision into reality. Pettitt's work at Disney has resulted in over 50 scientific publications and presentations. He has a PhD degree from the University of Florida.

#### Testimonials from Workshop Attendees:

"This workshop was great! It was very professional and well-organized. Presenters were very informative, the meals were great and the [Pentair] AES staff were awesome in every way. This far exceeded my expectations."

"The staff was unbelievable! I loved that the aquaponics system was on-site for demonstration purposes. I will be setting up my system immediately and I will have access to the parts and technical assistance I will need."

"The staff and presenters were top notch. They were all extremely friendly and more than willing to help at any time. I would attend another [Pentair] AES workshop without hesitation."

"I enjoyed the in-depth explanation and technical review of the aquaponics system. I would absolutely recommend this workshop to a friend or colleague."

"As I start my project and even in future operations, I appreciate that there is a great level of support offered by [Pentair] AES."

#### WORKSHOP EXTRAS:

- Training manual, a CAD drawing for the Pentair AES Aquaponics System and PowerPoint presentations.
- Lunch provided during full-day sessions.
- Banquet dinner for attendees.
- Face time and Q&A with the presenters and Pentair AES staff.



### AQUATIC ECO-SYSTEMS™

2395 Apopka Blvd., Apopka, FL 32703 Phone: 407.886.3939 Web: PentairAES.com

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# PENTAIR AQUATIC ECO-SYSTEMS & GREEN SKY GROWERS AQUAPONICS TECHNOLOGY AND DESIGN WORKSHOP – FALL 2014 COURSE REGISTRATION FORM

**Course Title:** Aquaponics Technology and Design Workshop – Fall 2014

**Course Dates:** November 4, 2014 – November 8, 2014

**Date Registered:** \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ Course Rate: \$ \_\_\_\_\_

**Course Rates:** First person: \$1,350 • Additional person (business partner/spouse, etc.): \$1,000

**Name:** \_\_\_\_\_  
Last First MI

**Company:** \_\_\_\_\_ **Job Title:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**City:** \_\_\_\_\_ **State:** \_\_\_\_\_ **Zip:** \_\_\_\_\_

**Phone:** \_\_\_\_\_ **Cell/Office:** \_\_\_\_\_

**Email:** \_\_\_\_\_ **Fax:** \_\_\_\_\_

**Dietary Considerations:** \_\_\_\_\_

**Special Assistance Needed:** \_\_\_\_\_

**Method of Payment** (select one): \_\_\_\_\_ **Credit Card** \_\_\_\_\_ **Check Payable to: Pentair Aquatic Eco-Systems** (\$35 fee on returned checks)

**Credit Card Type:** \_\_\_\_\_ **VISA** \_\_\_\_\_ **American Express** \_\_\_\_\_ **MasterCard**

**Name as it appears on card:** \_\_\_\_\_

**Card #:** \_\_\_\_\_ **Expiration Date:** \_\_\_\_\_ / \_\_\_\_\_

**Authorized Signature:** \_\_\_\_\_

Cancellation Policy: Registered attendees who cancel at least 30 days prior to the workshop will receive a full refund. Cancellations made 29 to 5 days before the start date result in a 75% refund. NO refund will be granted for cancellations made 4 to 0 days before the start date.

By signing below and registering to attend this workshop, I hereby agree to the terms listed on this form and I grant my explicit permission to Pentair Aquatic Eco-Systems ("PAES"), Green Sky Growers and their affiliated companies, to use my name, my comments about the workshop (written and spoken) and my photo/video likeness in any future marketing and advertising materials; as well as in any other legal means. I hereby grant full copyright of photographs and other written materials from the workshop/course to Pentair Aquatic Eco-Systems, Green Sky Growers and their affiliated companies, jointly with the right to reproduce said photos and materials fully or in part. I understand that commercial use of any written materials, videos or photos provided by PAES are strictly prohibited unless written authorization is provided by PAES.

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If paying by credit card, you may fax your registration form to our secure line: 407-886-5306 or return by mail (see below).

If paying by check, please return your payment and completed registration form to:

Aquaponics Workshop Registration  
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