

## IANJ SUMMER TECH 2021 CLASS LISTING & DESCRIPTIONS BY DAY



**PLEASE NOTE IF THE COURSES ARE VIRTUAL OR IN PERSON BEFORE CHOOSING**

### **Monday, August 16<sup>th</sup> – Virtual Classes**

**10:00am – 1:00pm – VIRTUAL CLASS**

#### **Basic Troubleshooting Controller-Field Wiring**

Craig Borland – 3 CECs (General Credits)

In this class, you will learn: basic system review, controller troubleshooting, volt meter usage, field wire failures and wire connections

**2:00pm – 5:00pm – VIRTUAL CLASS**

#### **Advanced Control System Troubleshooting**

Craig Borland - 3 CECs (General Credits)

Master wiring for today's sophisticated control systems. This session will cover different types of transformers, proper phasing (primary and secondary), diagnosing problems using different meters, wire sizing for communication cables and two-wire systems, DC controllers, special solenoids, and proper splicing techniques.

**6:00pm – 7:30pm – VIRTUAL CLASS**

#### **NJ Business Law And Building Codes Relating To Irrigation Contracting - PART ONE**

John Raffiani – 1.5 CECs (NEW – Business Credits)

An in depth review of important information every Landscape Irrigation Contractor in NJ needs to know covering topics from Licensing, Permits and Home Improvement Act requirements (yes, they apply to you!)

### **Tuesday, August 17<sup>th</sup> – Virtual Classes**

**10:00am – 1:00pm – VIRTUAL CLASS**

#### **Field Hydraulics Troubleshooting**

Craig Borland - 3 CECs (Water Conservation Credits)

This class will cover how to: understand basic hydraulics, learn the rules of 3 in determining system capacity, evaluate current system hydraulics, and system troubleshooting (with the least amount of digging)

**2:00pm – 5:00pm – VIRTUAL CLASS**

#### **Smart Irrigation To Improve System Performance**

Craig Borland - 3 CECs (Water Conservation Credits)

This course will discuss system uniformity, system evaluation or auditing and also how to calculate zone flow and performance. We'll discuss various ways to improve system uniformity and performance, as well as how to calculate system water usage as it all affects the bottom line and overall return on the investment.

**6:00pm – 7:30pm – VIRTUAL CLASS**

#### **Two Wire Troubleshooting**

Jim Gurzler – 1.5 CECs (General Credits)

This course will review requirements and considerations for two-wire systems, including electrical codes, manufacturer's requirements on bonding and shielding, best wires and cables for lighting, ground grid splices, and how to isolate electrical faults in two-wire systems.

### **Wednesday & Thursday, August 18<sup>th</sup> & 19<sup>th</sup> – In Person**

**THIS IS A 2-DAY IN PERSON CLASS - NOT VIRTUAL**

Storr Tractor - 3121 US-22 - Branchburg, NJ

**8:00am – 5:00pm (must attend in person both days)**

#### **Foundations Of Landscape Irrigation Design**

Tim Cleary - 16 CECs (8 Water Cons Credits, 8 General Credits)

Master the basics of irrigation design. Developed by IA instructors with years of teaching experience, this beginner reference focuses on designing a simple residential or small commercial system. Organized to follow the typical design process, topics include gathering site information, calculating system capacity, soil-water-plant relationships, pipe sizing, hydraulics, head layout, uniformity, zoning and plan presentation.

### **Wednesday, August 18<sup>th</sup> – Virtual Classes**

**2:00pm – 3:30pm – VIRTUAL CLASS**

#### **Basic Irrigation Master Planning**

Chris Keating – 1.5 CECs (General Credits)

This class will illustrate all the things you need to consider before you design the irrigation system. All too often, we simply look at a site's plumbing capability without any thought to how much water is actually needed to manage the landscape. This is essential if you want the sprinkler system to provide the necessary irrigation during the most difficult times of the season. Once you know how to use the master planning checklist, you can be confident that your designs and installations will deliver the goods.

**6:00pm – 7:30pm – VIRTUAL CLASS**

#### **NJ Business Law - Contracts, Utility Mark Outs And Employment Considerations - PART TWO**

John Raffiani – 1.5 CECs (NEW – Business Credits)

Information you can use to protect yourself from multiple issues before they arise such as contract clauses, utility mark outs and employment concerns

### **Thursday, August 19<sup>th</sup> – DAY TWO OF IN PERSON (see above for details) – NO VIRTUAL COURSES ON THURSDAY**

#### **SPECIAL NOTE FOR CONTRACTORS...**

In January of 2021, all licensed contractors were informed by letter from the state that there is a new CEC requirement taking effect. There will still be a total of 16 CECs required each cycle, with at least 8 of those CEC's in water conservation topics, but also now a total of 2 CECs will also be required of the 16 overall in topics related to NJ business law and/or building codes. Please note the designation listed after each course to be sure you are taking the proper credits. If you are NOT sure where you stand with credits, contact the state directly at 609-984-7834 or [lic@dca.nj.gov](mailto:lic@dca.nj.gov).

## MEET THE SPEAKERS:

### **CRAIG BORLAND**

Craig Borland has worked for Toro Irrigation/Irritrol for the past 27 years. During that time he has managed the Controller Repair Department and the Service Center Repair program, and also held positions as Warranty Administrator, Inside Sales rep, and is currently working as Field Service Manager in the Irrigation Division. Craig provides technical support for the Engineering, Legal, Technical Support and Marketing departments, and the Micro division, among many others. He holds a B.S. in Fruit Science with a Minor in Ornamental Horticulture from Cal Poly–San Luis Obispo. He has taught classes for the Irrigation Association for the past 18 years, and also serves on the IA Education Foundation Committee as a Subject Matter Expert.

### **TIM CLEARY**

Tim Cleary, Manager of the Landscape Products Group for Storr Tractor Company, has over 40 years of experience in the landscape and irrigation industry. He began his career in design and project management at the contractor level while in high school and college. Tim then progressed to contractor ownership, to business development at a Mid-Atlantic distributor, to managing a business group at that same distributorship. With all those years of experience, Tim has gained a valuable breadth of knowledge in the landscape and irrigation industry. His understanding and passion for the business comes through in every conversation. Tim enjoys working with contractors to help them manage and profitably grow their businesses.

### **JIM GURZLER**

Jim Gurzler of Reasonable Outdoors LLC has over 25 years of experience with irrigation, including golf course, commercial and residential applications, along with extensive pump experience and has served on the GCSANJ education committee and on the Pocono Turfgrass Board as Editor.

### **CHRIS KEATING**

Chris Keating began his 46 year career as a contractor in New Jersey in 1974 installing hydraulic sprinkler systems. His time in the industry has been spent contracting, working in various distributorships in NJ and VA as a salesperson or executive manager. He's worked for Toro for the past 13 years in sales. During his career, he's served on the IA board of directors, as chair of the Irrigation Foundation, as president of the Irrigation Association of New Jersey, and currently as treasurer of the Carolinas Irrigation Association. Chris has presented technical and business classes to thousands of contractor and distributor attendees. His training is based in common sense and is informed by his years as a contractor. He's "walked the walk". Chris currently lives in Richmond, VA. He has spent time in NJ, FL, TX, MO, MD, and VA.

### **JOHN RAFFIANI**

John Raffiani has been installing and servicing irrigation systems since 1966-over 16,800 to date. He has completed projects ranging from small residential systems to up to 100 acre sites including homes, shopping centers, corporate office parks, athletic fields, and condominiums in New Jersey, New York, Massachusetts, Florida, Arizona, and California. He is a Licensed Irrigation Contractor in NJ, an IA Certified Irrigation Contractor (CIC), an IA Certified Technician (CIT), a Certified Backflow Tester, a Rutgers Certified Fertilizer Applicator and is a member of IANJ, IA, NJLCA, NJTA and NEWWA. He also teaches at the National IA Irrigation Show & Education Conference.