Professional Education Opportunities at ITRC - 2020

Visit our website at www.itrc.org or call (805) 756-2434 to obtain the latest information.

Irrigation District School of Irrigation Winter 2020
at ITRC (8 am - 5 pm)

**Sponsor: USBR Mid-Pacific Region**

ITRC is providing several training and educational opportunities for staff, engineers, and board members of agricultural irrigation districts, as well as water operators. These classes utilize the excellent indoor and outdoor facilities at Cal Poly.

**Water Operator Classes**

- **FLOW MEASUREMENT & CANAL OPERATION**
  - 1st session: Jan. 15-17, 2020

**SCADA**

- **SCADA Basics – March 23**
  - This one-day class is designed to introduce SCADA for those new to the field, starting with electric and electronic fundamentals. This course is a recommended prerequisite to the Advanced SCADA class, regardless of experience level.

- **Advanced SCADA for Technicians – March 24-27**
  - This four-day class provides an overview of typical SCADA technician roles and responsibilities. Topics/labs include: sensor overview, sensor calibration, introduction to Programmable Logic Controller with Structured Text, intro to touchscreen configuration, radio path testing, intro to Human-Machine-Interface (HMI), and troubleshooting.

- **PUMPS I, March 11:** Basic pumps course covering types; terms; curves; pumps in series and parallel; system curves; TDH computations; efficiency; WHP, BHP, input HP; pump selection; trimming impellers; common pump questions and answers.

- **PUMPS II, March 12-13:** Class covering advanced topics such as: NPSH, submersible pumps; well screens and well development, shaft losses, shaft sizing; maintenance and troubleshooting; adjustable speed drive (ASD) basics; variable frequency drive (VFD) basics; retrofitting VFDs on existing motors; affinity laws for variable speed operation; estimating savings from VFDs; hands-on ASD applications; power factor correction; inlet and sump design.

**Flow Measurement & Canal Operation**

- **CSU Chico**
  - **March 17-19, 2020 (9 am - 4 pm)**

ITRC provides annual flow measurement and canal operation training for operators in the Chico area in cooperation with CSU Chico. Some of the topics include: flow measurement details such as how to properly use a meter gate, how to get more water through various structures, and an introduction to SCADA.

**Designer/Manager School of Irrigation**

- **at ITRC (8 am - 5 pm)**

The Designer/Manger School is a comprehensive educational program offering a variety of classes designed for both agricultural and landscape irrigation professionals.

**Summer Classes**

- **July/August 2020**

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**Irrigation District Custom Classes**

In addition to the classes offered throughout the year, ITRC can provide training specifically tailored to the needs of individual districts or companies. For example, in the past, we have offered modified classes in flow measurement, canal operation, SCADA, and drip irrigation.

For more information, please contact: Dr. Stuart Styles, sstyles@calpoly.edu