



Professional Education Opportunities at ITRC - 2019

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Flow Measurement & Canal Operation CSU Chico

January 8-10, 2019 (9 am-4 pm)
March 19-21, 2019 (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.

Irrigation District School of Irrigation Winter 2019 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. 16-18, 2019

2nd Session

Feb. 27-March 1, 2019

Pump Training – March 6-8, 2019 at ITRC (8 am-5 pm)

Sponsor: USBR Mid-Pacific Region

PUMPS I, March 6: Basic pumps course covering topics such as: types; terms; curves; pumps in series and parallel; system curves; TDH computations; efficiency; WHP, BHP, input HP; pump selection; trimming impellers; and common pump questions & answers.

PUMPS II, March 7-8: Class covering advanced topics such as: NPSH, submersible pumps; well screens and well development, shaft losses, shaft sizing; maintenance and troubleshooting; adjustable seed 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; and inlet & sump design.

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

Ag Irrigation System Evaluation Short Course June 2019 **Sponsor: DWR**

ISE I: Theory and Laboratory Practice of Evaluations.

This 2½-day course will be held at the ITRC in San Luis Obispo on **June 17-19, 2019**. The class combines classroom (50%) and outdoor laboratory (50%) activities. Efficiency definitions and techniques of evaluation are emphasized, ranging from how to take a pressure measurement to what specific measurements are needed for the evaluation of six distinct irrigation methods (furrow, border strip, hand move/side roll sprinkler, linear move sprinkler, undertree sprinkler, and drip/micro). The course is not mathematically oriented, since the calculations are manipulated by the new and revised Cal Poly/DWR expert system Irrigation Evaluation programs.

ISE II: San Joaquin Valley Field Evaluations of Drip/Micro Systems

This 2½-day class, held on **June 19-21, 2019**, travels to the San Joaquin Valley and performs the entire evaluations on 2 fields. Emphasis is on performing the field evaluations for drip and microspray irrigation systems on trees/vines. This class allows for more extensive field training to help with the comprehension of the materials from Class 1.

Designer/Manager School of Irrigation July 31-August 16, 2019 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 2019

Monday	Tuesday	Wednesday	Thursday	Friday
29	30	31 Basic Soil, Plant & Water Relationships	1 Irrigation Scheduling, Salinity, & Drainage	2 Irrigation Scheduling, Salinity, & Drainage
5 Basic Pipeline Hydraulics I	6 Basic Pipeline Hydraulics II	7 Pumps I	8 Pumps II	9 Pumps II
12 Fertigation	13 Row Crop Drip Irrigation	14 Drip/Micro Irrigation Design	15 Drip/Micro Irrigation Design	16 Drip/Micro Irrigation Design