

nightly irrigation time under this peak season condition should be approximately 6 hours and 25 minutes. Since you have 8 hours available to irrigate, you can use the extra 1 hour and 35 minutes for activating lower priority zones that may not have fit into the maximum pump station capacity programming time frame.

By starting with a "worst case" scenario in your theoretical programming calculations you can identify potential problem and develop fine tuning procedures to create an efficient seasonal irrigation program at your golf course before any potential problems become a costly reality. Continuing advancement in the field of computer irrigation control system technology has made it possible for the superintendent to monitor, analyze, and quickly adjust the field controllers to respond to varying water requirements for the irrigation zones on the course. In order to program and operate any control system effectively however, you need to know how much water is required by each irrigation zone, how much water your system can effectively provide to each zone, how many zones the system has and how long it

takes to irrigate effectively, and how much time is available to irrigate. After these variables are known it's just a matter of putting everything together into a logical program sequence. Good luck.

Next month: State Assembly Bill #325 and the Water Conservation Model Ordinance; How Might It Affect Your Course.

Doug Macdonald is an associate design consultant with Russell D. Mitchell & Associates, Inc., an irrigation system design and consultation firm in Walnut Creek, California.

## NAUMANN'S NORCAL NEWS

**Skip McCaslin** has accepted the supt. position at San Jose CC. Skip was the assistant prior to his promotion. He is replacing **Bob Dauterman**...**Ed Miller** has left his position of Superintendent of Golf Course Maintenance for the Pebble Beach Company to become the Director of Grounds maintenance for Desert Highlands Golf Club in Scottsdale, Az...**Dave Davies** has left his supt. position at Dry Creek GC in Galt to become the Supt. at Palo Alto Muni GC under the direction of **Paul Dias**. Paul was recently promoted to the Director of Golf Course and Parks.

# AUTOMATIC RAIN TURF DAY

Automatic Rain will hold a Turf Day on March 24, 1993 at the Alameda County Fairgrounds, Pleasanton, Calif.

Seminar topics to include the following: Pesticide Laws and Regulations; Common Diseases and Insect Problems in Landscape Trees; Pest Management and Water; Weed Control in Turf; Nutrient Management for Healthy Turf; Improving Vegetation Control Program; Spray Calibration, Why and How; Precipitation Rates and Sprinkler Irrigation; Troubleshooting Irrigation Systems; Troubleshooting Irrigation Control Valves; Troubleshooting Irrigation System Wiring. Also Toro "Red Iron" Equipment and outdoor demonstrations on irrigation equipment, over 30 manufacturers exhibits and more. CDFa credits have been applied for. Contact any of the 12 local Automatic Rain locations for registration info. There is no charge for the event by registration by March 17th is required.

For further information contact Pam Grady at 415-323-5161.



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