

# THRU THE GREEN

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OUR OBJECTIVE: The collection, preservation, and dissemination of scientific and practical knowledge and to promote the efficient and economical maintenance of golf courses. Information contained in this publication may be used freely, in whole or in part, without special permission as long as the true context is maintained. We would appreciate a credit line.



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# PRESIDENTS MESSAGE

I don't know about the rest of you, but it seems like this is the time of year when it sure gets busy. All those things I was going to get done with the irrigation system during the winter are back to haunt me again. In this line of business, one really appreciates a rainy winter day. You know, catch up on the paper work, clean up the files, the desk, the shop all those good things. Unfortunately it is the season of long days, short nights and lots to do. I wouldn't trade this job for anything else except a minus 2 handicap.

Speaking of things to do, our Association has a great schedule of events lined up for the year. Plan on taking some well earned time off and attend some of the upcoming meetings. The June meeting is an example of one not to miss. Breakfast at The Inn at Spanish Bay, followed by the second round action of the US Open at Pebble Beach and capped off by the hospitality tent sponsored by the GCSAA in the evening back at Spanish Bay. In July, we have the Superintendent/Pro Tournament at Lake Merced. The entry form, which requires a valid handicap to compete for prizes is enclosed in this newsletter.

Our May meeting was well attended and a good time was had by all. I would like to reiterate an announcement made at the meeting regarding California Fairways. Every member of the Association should be receiving a copy of this fine magazine. It is the official publication of the California Golf Course Superintendents Association of California. The state association needs money to become a viable organization and accomplish its goals. The more successful the magazine the more money it will receive. Here is the sales pitch-it won't cost you anything but a couple of minutes of your time. Open up the magazine, pull out the reader service card. Mark yes in the box which asks "Do you wish to continue to receive California Fairways" and send it in. This small action on your part will allow for a greatly reduced mailing rate for the publishers

and increased revenue for the State Association. Forgive me if I repeat this message in the future but we need our members cooperation regarding this matter.

I helped Tom Jackson score the golf results for the May meeting at Sonoma Golf Course and two things jumped out at me while looking at the score cards. First, Mr. Larry Norman's golf course is more than tough enough for the average golfer and second, there were a great number of participants without a valid handicap. If you are a member of our organization you have no excuse for not having a handicap. In the format played at Sonoma those without a handicap had no chance of winning, the same will apply to the Superintendent/Pro and all other events.

Our Association offers free handicapping for our members through the NCGA. Mike Basile and Ross Brownlie are in charge of Golf/Tournaments/Handicaps and we plan to do everything possible for our members to have a valid handicap in the upcoming year.

Now that you know who to bug about and Handicaps, I would like to present the rest of the lineup: Programs and Meeting Sites will be the responsibility of Brian Bagley and Randy Gai. Membership Chair will be Bob Cox. The Affiliate Representatives to the Board are Mike Ginelli and Chuck DalPozzo. Continuing as our Newsletter Editor and liaison with the California Fairways magazine, Jean LaDuc, and last but not least Barbara Mikel, our multi-talented Executive Secretary, the one who keeps us all on track.

The President will be in charge of complaints, compromises, compliments and cajoling the membership to do the right thing. I strongly urge all of you to take some time this year, attend the meetings, play some golf and smell the flowers along the way.

Rod



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# COMBINING THE REQUIRED DATA INTO A BASELINE IRRIGATION PROGRAM - PHASE II

You might recall from last month's article that the daily 'ET applied' (ETa) for healthy turf is equal to the daily evapotranspiration rate for the turf (ETc) minus the daily effective rainfall (E.R.), which can be expressed by the following equation:  $ETa = ETc - E.R.$  = inches of water to apply/day

This equation is to be calculated for each month of the year and we used an example for the month of March where ETc = .07" and ER = .05" which meant that our daily ETa = .07" - .05" = .02"/day in March.

The next step in the programming process involves calculating the approximate amount of time necessary to run the irrigation system in order to apply the proper amount of water to the turf. It is often easier to complete this calculation after converting from daily ETa to weekly ETa. This is accomplished by multiplying daily ETa X 7 days. Following March example equation the weekly ETa will be .14" of water per week. The following equation is used in determining the required run time for the sprinklers to provide this amount of water based on the ETa value and the precipitation rate(Pr) of the sprinklers.

$$ETa \text{ (inches/week)} + Pr \text{ (inches/hour)} = \text{Run Time (hours/week)}$$

Applying this equation to our March example we can calculate the required weekly run time:

$$\text{Weekly ETa} = .14"/\text{wk.}; Pr = .53"/\text{hr. (as calculated in a previous article)}$$

$$\text{Run time} = .14 + .53 = .264 \text{ hours/week}$$

Because most irrigation control systems are set minutes of operation it is important to convert the run time into minutes per week. This is easily done by multiplying the hours

per week figure X 60 mins./hr. = 16 minutes/week. The weekly run time figure can then be divided by the number of days available for irrigation of the zone; in this example we'll assume that we want to water four days a week:

$$16 \text{ min./wk.} + 4 \text{ days/wk.} = 4 \text{ minutes/water day.}$$

This is an appropriate point to stop and review the programming process, variables, and equations that we have used so far.

The main environmental factors of the site to be considered for effective turf irrigation system programming are:

- Turf Water Requirement after adjusting for allowable water depletion stress (avg. inches per day for each month).

- Evapotranspiration Rate for turf on-site (avg. inches per day for each month)  $ETc = \text{inches/day}$

- Effective Rainfall on-site (avg. inches per day for each month)  $ER = \text{inches/day}$

The main physical characteristics of your irrigation system to be determined for effective turf irrigation system programming are:

- Precipitation Rates for each irrigation zone (inches per hour)  $Pr = \text{in./hr.}$

- \* Number of Watering Days and Watering Time (minutes and hours) available for use.

These variables are put to use in the following programming calculation process:

1. Determine daily ET applied (ETa) on a monthly basis for the site by using monthly data and this equation:

$ETa = ETc - ER$  = inches of water to be applied on a daily basis for the month.

2. Convert daily ETa into weekly ETa:  
Weekly ETa = Daily ETa X 7 days/week = inches of water to be applied on a weekly basis for the month.

3. Determine approximate weekly run time for each zone from this equation:

$$\text{weekly run time} = \text{weekly ETa} + Pr \text{ for zone} = \text{hours/week.}$$

4. Convert weekly run time into minutes:  
weekly run time (hrs./wk.) X 60 mins./hr. = weekly run time (mins./wk.).

5. Determine run time per water day:  
weekly run time (mins./wk.) + available water days = daily run time (mins./water day).

If you have accumulated accurate environmental data and physical characteristics for your irrigation system, and have calculated each step properly you should know the required run times for each irrigation zone on your golf course on a daily, weekly, and monthly basis. The next step is to incorporate this information into your irrigation control system.

Next Month: Using your Irrigation Control System Effectively

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

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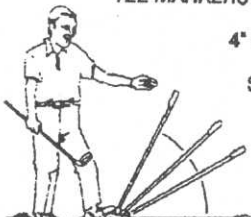
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# GEORGE SANTANA, AVID GOLFER WHO BUILT MANAGED COURSES

For aging Santa Clara Valley golfers who struggle to keep their skills long enough to shoot their age, George Santana was an inspiration.

When he was in his 70's, he shot a 68 at the 18-hole Spring Valley Golf Course in the hills above Milpitas. On April 19, 1985, Mr. Santana shot an 80 - on his 80th birthday.

In 1987, at 82, he beat all the plus 50-year olds in the annual tournament of the Golf Course Superintendents Association of America in Tucson, AZ, to win the seniors trophy.

But Mr. Santana didn't just play golf courses; he made them - and kept - and owned them. He made his mark on fairways and greens all over the Santa Clara Valley for nearly 50 years.

It started when he was a teenager and his father had a team of horses and an apricot orchard in the east foothills next to the San Jose Country Club. The greenskeeper for the club's golf course needed the horses to pull its mower; young George became the driver.

He stayed until 1946, rising to greenskeeper himself and then golf course superintendent.

Naturally he played - well enough to win trophies in city championships along the way.

In the late 1940's and 50's, Mr. Santana opened a driving range on Alum Rock Avenue and got into course design and construction - in Hollister, Bolado Park; San Jose, Cambrian Park, Santa Teresa and Almaden Country Club, where he was golf course superintendent for several years.

By the '60's, he had built his own course, the El Rancho Verde Golf Course on McKee road.

When George Santana retired and quit developing golf courses in the 1970's, he switched to developing people...and he played golf, at least three times a week with the Spring Valley foursome or the SIRS, or the Elks or the "course superintendents."

Editor's Note: Article seen in the April 23, 1992 San Jose Mercury News. The Distinguished Service Award given each year will now be named the George Santana Distinguished Award.

## TWENTY FIVE YEAR PIN

The following members received their twenty five year pins at the Annual Meeting held April 27, 1992 held at Palo Alto Hills Country Club.

- Harkewal "Henry" Singh
- Joe Andrade
- Bill R. Menear
- John Flachman
- Michael R. Clark, CGCS
- Santokh "Sam" Singh
- John Engen\Kazu "Kaz" Maseba
- James D. Ross
- James Fred Mays
- James R. Bantrup

- C.W. "Chuck" Weatherton
- William C. Huff
- Billy Dean Osborn
- William H. Nigh, CGCS
- Mulkh "Roger" Raj, CGCS
- David E. Griffiths
- Dale Achondo
- W. A. "Mac" McGraw
- Donald R. Meyer
- Charles "Chuck" Mangold
- Raymon York
- Russell D. Mitchell
- Robert H. Wright
- Robert Muir Graves
- Robert J. Helwig, Sr.
- Joseph D. Sheffield

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**1992 SUPERINTENDENT / PROFESSIONAL TOURNAMENT**  
**PLACE: LAKE MERCED COUNTRY CLUB DATE: JULY 13, 1992**  
**HOST: LOU TONELLI**

<b>SCHEDULE:</b>	10:30 am	Registration
	11:30 am	Lunch
	12:30 pm	Shotgun (No Jeans or Shorts)
	6:00 pm	No Host Cocktails
	7:00 pm	Dinner

**REGISTRATION AND ENTRY INFORMATION**

- Priority registration will be given to Superintendent/Pro Teams for entries received by June 26, 1992.
- Registration will not be accepted as complete until COPIES OF MAY INDEX/HANDICAP are received for each TEAM MEMBER.
- Entry verification will be mailed upon receipt of completed application and payment.
- Maximum allowable Index is 22.
- A GCSANC Member must be on each four man Team.
- Superintendent, Affiliates and Guests **\$100.00** (Driving range, lunch, tee prize, dinner)
- Professionals **\$110.00** included in entry fee)
- Dinner only **\$ 45.00**

**TYPES OF PLAY**

- \*Superintendent/Professional 2 person Team 1 Best Ball with Handicap
- \*Superintendent Individual Low Net & Low Gross
- \*Professional Low Gross - Purse based on entries
- \*Affiliates/Guests Low Net
- \*Four Man Team 3 Best Ball with Handicap

**TO APPLY**

Mail application, copy of May Index Card for all team members and check to :

GCSANC  
 1745 Saratoga Ave. Suite A1  
 San Jose, CA 95129

**SUPERINTENDENT ENTRIES WITH PAYMENT ACCEPTED UNTIL JUNE 26, 1992. ALL REMAINING SPOTS FILLED BY AFFILIATES ON FIRST PAY, FIRST COME, FIRST SERVED BASIS. FINAL DEADLINE FOR ALL ENTRIES IS JULY 3, 1992. FOR INFORMATION CALL MIKE BASILE BETWEEN 9:00 - 10:00 am. AT (408) 980-9580.**

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SUPERINTENDENT \_\_\_\_\_ CURRENT INDEX \_\_\_\_\_

CLUB/BUSINESS \_\_\_\_\_

ADDRESS \_\_\_\_\_

TELEPHONE NUMBER \_\_\_\_\_ SHIRT SIZE \_\_\_\_\_

PROFESSIONAL \_\_\_\_\_ CURRENT INDEX \_\_\_\_\_

SHIRT SIZE \_\_\_\_\_

GUEST/AFFILIATE \_\_\_\_\_ CURRENT INDEX \_\_\_\_\_

SHIRT SIZE \_\_\_\_\_

**!!!!!!ANY CANCELLATION RECEIVED AFTER JULY 3, WILL NOT BE ELIGIBLE FOR A REFUND!!!!!! ENTRY VERIFICATION WILL BE MAILED UPON RECEIPT OF COMPLETE APPLICATION AND PAYMENT.**



# MAY MEMBERSHIP

**AFFILIATE**

Robert Berggren, Buchanon Fields GC  
 Gary Hoff, Country Club Sales  
 Steve Kent, Country Club Sales  
 William Sasagawa, naka Nursery  
 Michael Willis, Country Club Sales

**Passed B Exam**

Dan Sakai

**PENDING VERIFICATION OF STATUS**

**Class A**

Gary Grigg, Genoa Lakes GC  
 Robert Stuczynski, Oasis, CC

**PENDING A EXAM**

Gary Carls, San Jose Municipal GC

# PALO ALTO HILLS COUNTRY CLUB GOLF RESULTS

**Low Gross**

Ross Brownlie on matched card)	73 (won)
Armando Claudio	73
Scott Lewis	74
Mike Glasson	77
Mike Ligon	78

**Low Net**

Don Naumann	63
Tim McCoy	67
Terry McGlynn	69
R. Iyemura	71
Emil Yappert	71

Closest to the Hole #2  
 Terry Stratton  
 Closest to the Hole #11  
 Mike Glasson

# A LOOK AHEAD

June 19	U.S. Open-Pebble Beach
July 13	Lake Merced-Supt/Pro
August 14	Marin CC
September 14	Pasitiempo CC
October 9	Sierra Nevada Chapter joint meeting
November 11, 12	GCSANC /UC Cooperative Extension Golf Course Institute
December 4	Christmas Party



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**Lou Tonnelli (l) David Sexton (r)**

## EXCELLENCE IN GOLF TURF MANAGEMENT

The purpose of this award is to recognize those Superintendents who have done a superior job of maintaining and grooming their golf courses.

Just as it is very difficult to compare budgets it is also very difficult to compare Superintendents because of all the possible differences in terrain, budgets, soils, climate, regulations, water, irrigation systems, available man power and equipment that the Superintendents must deal with.

However, despite, all these disparities, there are similarities between those Superintendents who are able to meet the challenges of their jobs and produce quality playing conditions year after year.

Those successful Superintendents all have a high degree of dedication and enthusiasm that they apply to their jobs. They share the ability to be resourceful and creative as they meet the daily challenges of our profession, always looking for a better way and leading by example.


This description actually applies to many Superintendents and that made it very hard for us to select the most deserving recipient of this award. After much discussion, thought and on course review we were able to get down to two final individuals, both of whom were deserving of recognition.

They both started their lives completely differently with one being born in Oakland and the other being born in Italy, but as they started their careers their paths followed a more common route as they both started as crewmen on golf courses and rose eventually to positions of superintendent after many years of learning the profession from the ground up.

This is not a tie, we are recognizing both of these Superintendents on their own merits and it is my great pleasure to announce the 1991 recipients of the Excellence in Golf Turf Management, Randy Gai of Claremont Country Club and Lou Tonelli of Lake Merced Golf and Country Club.



**Randy Gai (l) David Sexton (r)**




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## DISTINGUISHED SERVICE AWARD

This year's distinguished Service Award is presented to Grady Simril. Grady has never hesitated when asked to do something for the benefit of the golf and turf industry. He has perpetuated the image of a professional in all of his endeavors. He is a long time member of the Superintendents Association, now retired and also past president. He has served on numerous committees for the betterment of the golfing community and was a very active member of the Northern California Turfgrass Council for many years.



Grady Simril



Steve Good

## SUPERINTENDENT OF THE YEAR

This person was very active on many projects and functions for the Golf Course Superintendents Association of Northern California. Seems like whenever he had a job to do, it just got done.

Some of the exploits include, Co-Chairman of the annual Christmas Party in 1989 and again in 1990 when the Christmas Party and Larry Lloyd Memorial Tournament was such a success. In his spare time he has also managed to submit four articles for publication in "Thru The Green". He was also very active in functions for the betterment of the community.

Another project which was of great value was the institution of the golf certificates with the PGA for prizes. In essence, he has done a great job for the Association and the community.

The Superintendent of the Year for 1991 is Steve Good.

## AFFILIATE MERIT AWARD

Tom Jackson of H.V. Carter, Inc. in Oakland was named 1991 Golf Salesman of the Year by the Golf Division of Rain Bird Sales, Inc. With ten years of sales experience in the irrigation industry, Jackson has spent the past four years working exclusively with golf irrigation products.

"Tom Jackson's dedication to the golf business has resulted in a significant sales increase for 1991, as well as excellent working relationships with the area's architects and golf course superintendents," said Steve Christie, Rain Bird Golf Division's director of sales. "He has set a standard for performance each of us are challenged to meet."

Don Naumann last year's recipient presented the award to Tom Jackson.



Tom Jackson (l) Don Naumann (r)

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