

GCSANC's New President – Gary Carls, CGCS

y first interest in the golf business was at the age of 15. A buddy of mine convinced me to go caddy with him to make some spending money and to save up for my 1st car. Little did I know, I was about to caddy at one of the world's most renowned courses of the time, Oakland Hills C.C. in Birmingham, Michigan. As I caddied through that summer, the beauty of the Donald Ross creation peaked my interest in design. I ended up caddying two summers there until I

"real job" as a busboy. By my senior year of high school, I worked for the structural engineering firm that did the Pontiac Silverdome as a part time delivery boy / part time drafter. I made many runs in my time to Detroit to deliver drawings. Working inside for that one summer convinced me that I needed an outdoor job.

I attended Michigan State University and got a Bachelor's of Landscape Architecture degree in 1977. A good friend convinced me that I needed a turf background to get into the field of golf design. I convinced Dr. Ken Payne to let me enroll in the two-year turf certificate program at Michigan State. To my knowledge, they had never let anyone into the program without prior golf course maintenance experience.

After finishing the turf program in the spring of 1979, I went to work for Bill Newcomb who did golf course design, truction and maintenance in Michig..... Bill eventually brought me to See "New President, Gary Carls" on page 3



Pictured Left to Right: Vice President, Bob Costa, CGCS; Director, Roger Robarge; Secretary-Treasurer, Jeff Shafer; Director, Gary Skolnik; President, Gary Carls, CGCS.

New Board Members Elected at Annual Meeting

The 2000 Board of Directors was elected at the Annual Meeting at Palo Alto Golf Course on January 18th. Elected President was Gary Carls, CGCS. Vice-President will be Bob Costa, CGCS. Jeffrey Shafer will be the Secretary-Treasurer. Roger Robarge and Gary Skolnik were elected as Directors. Bob Lapic was appointed to fill the vacancy at Director created by Bob Costa's rise to Vice-President. In the Affiliate election, Reg Gentry was elected Affiliate Representative.

The meeting was presided by outgoing President Dave Davies, CGCS. Mike Nunemacher gave the minutes from the '99 Annual Meeting and the Treasurer's Report. Gary Sayre, CGCS gave a report on the status of the Membership. As of December 31, the Association had 165 Class A members, 43 B members, 82 C members and 22 Class A Life. The total membership was 614.

Dave Sexton, CGCS presented an annual review of the accounting procedures used by the GCSANC. Dave and Rich Lavine, CGCS visited the Diamond Springs office in December to conduct their review.

Bob Costa, CGCS gave an update on the GCSANC Media Program. Bob stressed that the program was healthy and described the schedule and objectives for the coming year. He reminded members that the program cannot "create stories out of thin air" and that they need to contact Greg Crawford with anything that could help promote the

See "Annual Meeting" on page 7

EDITOR

Kenneth D. Williams, CGCS 650-323-0937

OFFICE Barbara Mikel - Executive Secretary 550 Main St., Suite G P.O. Box 3360 Diamond Springs, CA 95619 Phone: (530) 626-0931 Fax: (530) 626-5132

MEDIA DIRECTOR GREG CRAWFORD Fax/phone (503) 796-0823 email GMCGOLF@compuserve.com

PRESIDENT GARY K. CARLS, CGCS City of Sunnyvale Golf Courses

> VICE-PRESIDENT ROBERT COSTA, CGCS Laguna Seca Golf Course

SECRETARY/TREASURER Jeffrey Shafer The Course at Wente Vineyards

PAST PRESIDENT DAVID R. DAVIES, CGCS Palo Alto Muni Golf Course

> DIRECTORS ROBERT A. LAPIC Orinda Country Club

> ROGER ROBARGE California Golf Club

GARY SKOLNIK Fountaingrove Resort & CC

AFFILIATE ADVISORS STEVE FRANZEN J. R. Simplot/Best

REX GENTRY H. V. Carter Company, Inc.

PUBLISHER Jo Harlow - Key Publications Phone: (925) 827-9676 Fax: (925) 674-1688 email - keypub@ncal.verio.com

THRU THE GREEN Published monthly by the Golf Course Superintendent's Association of Northern California



From The President

s I begin my year as presi dent let me start off by thanking all of our outgoing board members. I have been privileged to work with Ken Williams CGCS, Terry Grasso, Mike Nunemacher and Craig Kilcoyne over these last two years and appreciate all of their contributions to GCSANC. Ken will be remaining as our newsletter editor and Terry has agreed to keep helping us with monthly golf for our meetings. Mike and Craig return to their busy job schedules for the new year. To Dave Davies CGCS, we owe a great debt for remaining as president for almost two years as we transitioned to our new annual meeting date and tried to get our media program off the ground. Dave has also committed to remain quite active in GCSANC as we bring our new group of board members in as the next generation of leaders for our association.

Congratulations to all of our new board members as we begin what I think will be a new and exciting year. I think we have a fine group of new members to the board and I know they are all anxious to get going in their duties. I'm sure they will be ready to offer many new and fresh ideas for our future. Over the next few weeks we will be arranging committee assignments. I hope to have them in the newsletter for the next issue. If you have any questions, feel free to contact any board member.

At our annual meeting, we had a presentation on the Professional Development Initiative (PDI) by Ray Davies CGCS. Because of limited time we didn't really have a lot of time to answer questions after the presentation. Because of the importance of this issue, we could look at having a special meeting to have a quick summary and ask questions of Ray. I have been to several meetings on PDI and it is not something that can be understood in a few minutes time. Ray



President, Gary Carls, CGCS

would also welcome any questions that you may have directly via e-mail or phone and will respond to any requests for information. Please let me know you would like to schedule some time in the future to further discuss this topic.

As you read this, many of us are ready to depart to New Orleans for the GCSAA Conference and Show. The California Hospitality Room will be at Jimmy Buffet's Margaritaville Cafe on Thursday evening from 7-11 P.M. Plan on stopping by and spending some time with your friends. While at Conference and Show, take in some of the many educational and networking opportunities at the trade show. Take some time and visit with some old friends and relax. I hope everyone traveling to New Orleans has a safe and rewarding trip.

In the upcoming months, I hope to report on many new and exciting activities of the GCSANC in this column. Please feel free to contact me with any comments you may have regarding the association. As most of you are aware, I started a new position at the City of Sunnyvale on January 24th so my new *President's Message Continued on Page 3*

From The President (Cont'd)

none # is (408) 730-7625. I look forward to my new career opportunity as well as serving the GCSANC as president for the next year. I look forward to 2000. I think we have a great meeting schedule ahead with an Etonic Program at Stanford G.C. on March 6th and our Media Forum on April 10th at Coyote Creek G.C. in San Jose. /

Office Notes

By: Barbara Mikel

I'd like to give a big thanks to Gary Carls, CGCS. I was afforded the opportunity to be on the "other side of the fence" at the January 6, 2000 GCSAA Regional Seminar on Pond Management. I live in a rural community development with six recreation/fish breeding and fire protection ponds. They are fed by natural watershed and have small dams. We have a landscape management company doing most of our work in addition to a maintenance person. The seminar was very informative and offered avenues for additional help to the health of our community lakes. It was an understandable presentation by Terry McNabb. Our maintenance people who paid for the class found it useful as well. Thanks again, Gary.

I am encouraged to have Ken Williams, CGCS and Terry Grass continue with respective duties even as outgoing board

embers. Each job is vital to the continued success of GCSANC and each brings talent to the respective positions. It is also encouraging to continue to work with the continuing Board of Directors and I am looking forward to new eager faces!

Thanks to Bob Rafferty III for answering the call to attend the annual USGA meeting. I'll hope for a report back for a future newsletter.

Speaking of newsletters, we will have "Eagle" sponsorship packages available. The 2 x 3 business card size ad is included in that package. It is a well-rounded way to support the association and gain some valuable advertising space. Our newsletter is mailed to over six hundred members. It is also mailed to other California and National associations. If you have permanently "filed" your Sponsorship packet give me a call and let me know. I'll send you another! /*

Attention all California Pest Control Advisor and Applicator License/Certificate Holders!

To receive credit for State Pesticide Continuing Education hours earned at the International Golf Course Conference and Show in New Orleans, please see Michael E. Sommer at the

nplot Turf & Horticulture Booth #3409. Please have your Ticense with you to complete and sign the accreditation form at the trade show. /

New President (Cont'd)

California to supervise the construction at Shoreline Golf Links in Mountain View.

When Alaska was next on the horizon for the Newcomb construction group in 1984, I decided to get out of construction and remain in California. I worked for five and a half years at Los Altos Golf and C.C. doing irrigation before moving on to San Jose Municipal G.C. as Assistant Superintendent in 1990. In 1992, I became Superintendent and was promoted to the position of Golf Course Maintenance Director for San Jose Municipal and Santa Teresa G.C. in 1997. On January 24th, I started a new position as Golf Operations Supervisor for the City of Sunnyvale. I'm looking forward to a new and different career challenge and hope my relationship with Sunnyvale will be as rewarding as all of my prior positions.

I became a Certified Golf Course Superintendent in 1993. Currently I serve as one of the GCSANC representatives to the California Golf Course Superintendents Association. For the past two years, I have been involved with the GCSAA Education Committee.

On the personal side, my spouse Georgianne and I have been together for over 18 years and live in the Almaden Valley area of San Jose. She has always supported me in my career decisions. I think she likes going to the GCSAA Conference and Show more than I do! She likes to help plan travel so we can have some time together to tour as we go to different places. Georgianne is nearing retirement from Lockheed-Martin in Sunnyvale and plans on working on her golf game then so she can beat Nancy Lopez. I've already given her the names of several of you to call for golf! We both like to travel but I am still having a hard time convincing her that Harrah's Tahoe (or Reno or Las Vegas) is more fun than camping. In the summer, we enjoy concerts at The Mountain Winery or Villa Montalvo as a quick escape from the stress of work. /

Tournament Tips By Terry Grasso

I know it's too late for this year, so store this suggestion for future consideration. If you are planning to attend the GCSAA Conference and Show in the coming years, set aside some time and money to play in the golf tournament!

I have been fortunate to play in two of the events, and they are a first class golfing experience. From the courses played, to your playing partners, to the hospitality before and after the rounds, it's a great time!

Board Room Briefs – January 10, 2000

- Barb Mikel presented the Treasurer's report. The Association is operating on budget for the year. December closing results were not yet available. Year-end results will be presented at the Annual Meeting at Palo Alto.
- A Media Plan for 2000 was presented to the Board by Bob Costa, CGCS. The plan outlined the responsibilities and schedule for Greg Crawford during the year. It was hoped that Superintendents will contact Greg with anything that may be newsworthy. One of the exciting things this year will be a featured article in Golf Today magazine where a local Superintendent answers a question related to the profession.
- Mike Hill withdrew his candidacy for the Director's position. Efforts will be made to secure another candidate for the election. A new candidate will have to be nominated from the floor.
- The Annual Meeting was discussed. Due to the time constraints, the scholarship awards will be given at the Media Day event in April. A presentation to Jerry Berrow of the Alameda Junior Golf Program will be made. He and his program will be given a donation from the GCSANC in the amount of \$1,000 along with the used golf equipment collected from GCSANC members. He

and two of his kids will be invited to the Media Day event and the Scholarship Tournament. At the Media Day event, he will be presented with another \$500 in driving range credit for his kids from the GCSANC.

- The Sponsorship program was discussed. There are still many opportunities to advertise/sponsor activities of the association. If members do not fill all the open slots, outside participation will be sought. Costs for outside sponsorship will be 10% higher than member rates. A blurb will be put in the newsletter noting the open opportunities.
- The proposed budget for the Association in 2000 was presented. Members were given a chance to discuss the items line by line. Barb was given the authority to make deposits on meeting sites. The Media Tournament was revised as a break-even event. The scholarship and research areas were left undecided until Ken Williams comes back to the board with a long term plan denoting endowments.
- A first draft of the Economic Impact of Golf Study was presented to Board Members for feedback. The study will be used to provide information to be used in legislative advocacy work in Sacramento.

McKay Leaves West Star

Dan McKay has decided to leave West Star Distributing and the turf industry altogether. Dan has taken a position with Pacific Bell. Dan worked the territory from the mid-Peninsula down past Monterey. He will be missed.



HAYWARD (510) 887-1222 FAX (510) 785-3576 RANCHO CORDOVA (916) 635-3232 FAX (916) 635-3348

Supporter Listing

Spot Water Management

Andy Slack, Irrigation Central Computer Consulting aslack@spotwater.com voice 408-288-8153 fax 408-288-8156

Bay Irrigation & Turf Supply Inc.

Providing one stop shopping for sprinklers, valves, pipe, fittings, sod, seed, stakes, drainage and lighting. Our 25th year of service to Northern California. Jeffrey Jones, VP/Sales 800-622-TURF (8873)

Media News

y Greg Crawford

During the next 12 months, the GCSANC will be providing a question of the month to the media and interested parties. We will be including the question in each newsletter and January's is printed below. If you would like to supply a question and the appropriate answer, please submit it to me for consideration. The question and answer obviously should be of interest to golfers and the media. It should be something that is informative and not really technical. This is just one more tool for getting our message out. Please call me at (503) 796-0823 if you have any questions.

What is the role of the golf course superintendent and the major responsibilities?

golf course superintendent is a trained professional turfgrass manager. The responsibilities include managing a golf facility's primary asset, the golf course. Much of the superintendent's knowledge and skills are rooted in agronomy. These skills are applied daily in the management of greens, tees, and fairways to ensure the finest laying conditions and to meet the expectations of today's olfer.

As a result of the delicate relationship golf courses share with the surroundings and the environment, golf course superintendents are often involved in projects that enhance the environment. They are dedicated in their daily management practices to fostering this relationship.

Golf course superintendents are managers, supervising staffs and managing budgets that may range from \$500,000 to well over a million dollars. Along with the golf professional and general manager, the superintendent is a vital member of a golf facility's management team. It is the superintendent who often has the greatest insight into current conditions on the course.

The golf course superintendent often must go beyond the boundaries of the golf course to meet with interested neighborhood groups, public entities and interested environmental groups. The golf course superintendent of today also must have strong communication skills as he is often asked to give speeches or write articles for various publications or newsletters. With the ever growing requests for information about course conditioning, remodeling or environmental efforts, superintendents of today must also be able to meet or produce information to the media in a timely and concise manner.

he role of the superintendent has changed greatly in the past few years. Through the educational efforts of organizations like the GCSAA and GCSANC, the superintendent is a trained professional who is more skilled than ever. /

GCSAA Honors Spanish Bay's Tom Huesgen

The Golf Course Superintendent's Association of America has honored Tom Huesgen, Golf Course Superintendent at the Links at Spanish Bay, for his environmental efforts at Spanish Bay. Huesgen was awarded a merit award as part of the GCSAA's Environmental Steward Award program. He will be recognized at the GCSAA Conference and Show in New Orleans on February 17th.

At Spanish Bay, Huesgen has done many things in his environmental efforts including keeping fertilization to a minimum, keeping a rough edge to outlying areas, and leaving habitat areas untouched unless they are enhanced with annual outplanting. The course maintains a vigorous recycling and composting program and utilizes reclaimed water during the irrigation season.

"We at Spanish Bay believe the environment and golf must continue the mutual relationship which has developed," says Huesgen. "Winning the award puts a positive reflection on our commitment and effort toward environmental stewardship," notes Huesgen. "But at the same time, we work toward environmental preservation because we choose to do so, not to win awards." /*

Six USGA Championships to be Held on the West Coast

Six of the United States Golf Association's 13 national championships will be conducted on the West Coast in 2000, highlighted by the 100th U.S. Open at Pebble Beach Golf Links.

The Open, making its fourth stop at Pebble Beach, will begin the USGA season June 15-18. The U.S. Open was held at Pebble Beach previously in 1972, 1982 and 1992. The season concludes Oct. 3-8 with the U.S. Women's Mid-Amateur at Big Canyon Country Club in Newport Beach, Calif.

The 100th U.S. Women's Amateur will be held at Waverley Golf Club in Portland, Ore., Aug. 7-12. The other events are the 75th U.S. Amateur Public Links at Heron Lakes Golf Club and the U.S. Junior and U.S. Girls' Junior held simultaneously at Pumpkin Ridge Golf Club.

Rankin named Patty Berg winner

Judy Rankin, popular TV golf analyst and 26-time winner on the LPGA Tour, has been given the 1999 Patty Berg Award in recognition of her outstanding contributions to women's golf.

The award is given to an individual who, like Berg, exemplifies diplomacy, sportsmanship, good will and contributions to the game of golf.

Golf's leaders sign Declaration

Top officials from golf have joined environmental leaders to sign the Valderrama Declaration on golf, environment and sustainability.

The Declaration was signed by officials from the United States Golf Association, the Royal & Ancient Golf Club of St. Andrews, the European Golf Association, the International Olympic Committee, the World Wide Fund for Nature International, the United Nations Environment Program and the European Commission. Its purpose is to take a forwardlooking perspective on the golf community's role in initiating and supporting environmental education, research and conservation.

Golf has long been intimately associated with the natural environment. More recently the debate has focused on the effect of modern golf developments. By addressing these issues through scientific research and education and by forging partnerships with major environmental organizations, the golf community is making strong efforts towards achieving sustainability.

The Valderrama Declaration identifies the advantages of golfers and environmentalists working together for the benefit of golf, the environment and people. The Declaration highlights the global nature of golf and its capacity to motivate and inspire by following a guiding environmental ethic based on the traditions and values of the game.

The Golf Course Superintendents Association of America is expected to join the other organizations in signing the Declaration in the near future.

Internet tools

Whatever you're shopping for, you will want to check out some of the top shopping bots available online. Shopping bots are digital comparison-shoppers that search out the best deals so you can compare them side by side.

Check out these hot bots:

- Bottom Dollar: http://bottomdollar.com
- e-shop: http://www.eshop.msn.com/
- Dealtime: http://www.dealtime.com/
- MySimon: http://www.mysimon.com/index.anml

USGA rules for golfers with disabilities

Among other things, the rise of Casey Martin to exempt status on the PGA Tour has prompted many people to wonder how the Rules of Golf apply to other golfers with disabilities.

Well, thanks to collaboration between the USGA and the R&A, there is guidance for accommodating golfers with disabilities under the Rules. The modifications to the Rules were established to, "allow the disabled golfer to play equitably with an able-bodied individual or a golfer with another type of disability. "

To make listing the modifications possible, the associations divided golfers with disabilities into specific categories. The brochure says, "Five such groups are easily identified. They are blind golfers, amputee golfers, golfers requiring canes or crutches, golfers requiring wheelchairs and mentally handicapped golfers."

For golf course superintendents, there are a number of interesting issues raised. Questions regarding whether using canes or crutches in a bunker constitute testing the surface, the responsibility of players to repair damage caused by assistive devices and the definition of what constitutes an unplayable lie for a golfer with a disability are all related to course maintenance.

These modifications to the rules of golf are available in a free brochure from the USGA by calling (800) 336-4446 or online at <u>http://www.usga.org/rulesgolfers with disabilities.html</u>

Rancho Canada GC and Carmel Middle School Team For Project

Rancho Canada Golf club and over 100 students at Carmel Middle School have teamed for an environmental improvement project at Rancho Canada Golf Club. The students have installed 75 bird nesting boxes on the golf course property.

Carmel science teacher Craig Hohenberger and Bob Costa, CGCS director of golf course management, coordinated the activity. The project is designed to attract more birds to the course and to increase habitat for many species. The students will return in the spring to monitor the nesting activity. "We are thrilled to provide students with the opportunity to have a hands-on project and learn about wildlife," said Costa.

During the past year, Hohenberger has been performing a monthly bird count at the golf course. In his work, he has recorded 69 different species of birds at Rancho. Hopes a that the number will only increase with the help of this important student project /

6



Annual Meeting (Cont'd)

verintendent.

Dr. Harivandi presented some of the research projects he is currently involved with. His work includes the perennial ryegrass variety trial at Sunnyvale and the USGA bentgrass trial at Crystal Springs. He is also working with non-mowed hard fescue and buffalograss at the BAREC. Other work involves tall fescue trials and reclaimed water effects on trees and shrubs in the landscape.

Ray Davies, CGCS presented GCSAA's proposed new Professional Development Initiative (PDI). The initiative is a broad based program to improve the education and marketability of the superintendent. The program is still in development and the GCSAA is seeking feedback before a bylaw change is proposed. The session at the Annual Meeting was very brief but the entire program can be viewed on the GCSAA web site at <u>www.gcsaa.org.</u> Ray also welcomes questions or feedback on the initiative at <u>rsdavies@pacbell.net</u>

Harivandi to Present Recycled Water Seminar at UC Davis

The University of California Extension- Davis is

Arering a one-day course, which will focus on issues related to the use of recycled water for turfgrass and landscape irrigation. The course will be taught by Dr. Ali Harivandi and geared toward recycled water issues in California. The course should be of special interest to golf course superintendents, park and recreation site managers, horticulture consultants, and other professional turf and landscape managers. Three (3.0) hours of DPR continuing education and 0.6 hours of GCSAA CEUs are pending.

Superintendent offers IPM idea

Brad Stuart, GCS at Orange Lake CC and Resort, Kissimmee, Fla., says he has a "pretty neat IPM trick for cut worm control on our greens."

"Half of the resort's 54 holes have Floradwarf greens. We found that because of our low height of cut (between 0.90' and .110") we could kill a large majority of our cutworm population simply by using our drag brushes early in the morning — preferably prior to first daylight. Of course, it's not 100 percent control, but it brings the population to a tolerable level that we can live with

hout any chemicals," Stuart said. "The early morning dragging also knocks down the dew, which reduces our disease thresholds and fungicide applications."

Ryegrass Trial at Sunnyvale



Bill Hagen sets up the trial at Sunnyvale



Bill Hagen, Ali Harivandi and Curtis Black discuss the trial.



Bill Hagen, Roy Yokote and Tommy Bracamonte prepare to seed the plots

Tips from the USGA

THRU THE GREEN

Irrigation System Maintenance - Dollars And Sense

Mike Huck, Agronomist USGA Green Section Southwest Region

Now that daily watering demands have slowed with the arrival of cooler weather it is the ideal time to perform irrigation system maintenance. Depending upon the condition of the system, this can amount to routine testing of pressures, controllers and sprinkler stations, or it can become a more major undertaking of replacing nozzles and upgrading other system components. A few things to consider as part of the annual irrigation system inspection should include: Leveling low sprinklers - Heads must occasionally be lifted to compensate for thatch accumulation and soil settling. It's a miserable job but it has to be done. If the heads are not flush and level to the surface. there is not much reason to go any further trying to improve the system. Efforts beyond this will be wasted if the heads are low and surrounding turf disrupts spray patterns. Pumping plant efficiency - Pump efficiency testing will determine if bowls or impellers are worn and how this wear is affecting operating pressures, energy consumption, maximum output of water, etc. Pump repair contractors can often perform this service. Also, some electrical energy providers offer these services at little or no cost to golf courses through their commercial account department.

Operating pressures - The set operating pressure at the pump station will vary at each site depending upon the design of the system, type of sprinklers installed and elevation changes across the property. If you are not sure what the original pressure specification was, contact the system designer for their input. Also remember to service booster pumps and/or pressure reducing stations at this time. Too little or too much pressure can also keep the irrigation technician busy repairing exploding PVC!

Finally, check operating pressures at various locations throughout the golf course during a normal watering cycle. These tests can be done with sophisticated pressure recording equipment or a simple gauge and Pitot tube. Pressure data can help identify controllers operating too many sprinklers simultaneously, improperly operating pressure boosting and/or regulating devices or identify areas where pipe was not adequately sized.

Sprinkler rotational speed - Rotation speed affects the distance water is thrown. Too fast, a shorter distance than desired and too slow too great a distance, hence distribution is upset. Improper stator & nozzle combinations can affect sprinkler rotation speed as well as worn motors in gear drive rotors. Worn bushings, improper spring tension or poor spoon adjustment are problems with impact heads. Contact the sprinkler manufacturer for specifications regarding proper rotational speeds for each model sprinkler used.

Control upgrades - Upgrading software or complete control systems can improve management of system hydraulics. Maintaining proper operating pressure ranges and flows can both improve coverage and energy use efficiency.

Other miscellaneous maintenance -

Cleaning and inspecting air-release valves can save countless headaches of ruptured pipe and damage from water hammer. Lubricating and "exercising" mainline valves is another forgotten chore that will pay off in an emergency when a portion of the system requires isolation. This is also a good time to have a pump technician perform other routine maintenance such as checking all electrical connections, changing oil in electric motors, and replacing or repacking seals. A little time invested now will reap large dividends later! Spacing uniformity. - Sprinkler spacing should be within plus or minus 5% of the design specification and uniform throughout the primary playing areas. Spacing adjustments to make the system "fit" the property should have been made near perimeters and out of play areas. Although it is not practical to try and move hundreds of sprinklers to correct poor spacing, checking spacing in a few areas of questionable coverage may allow you to document a problem with club officials.

Replace worn and mismatched nozzles -Nozzles replacement can become necessary after 7-10 years of normal use, or even less time if water contains sand and suspended solids that accelerate wear. Visual checks for obvious damage sometimes identify problems, however drill bits can more accurately assess wear when used as a gauge to compare new vs. worn nozzles. Consider high efficiency nozzles like those available from the Full Coverage Irrigation Company, they can significantly improve distribution uniformity. Contact FCI at (559) 603-3072. (Also see " Having Your Morning Coffee Without Donuts " May/June 1996 Green Section Record.)

Catch can test - Application uniformity testing is likely the most overlooked maintenance test for irrigation systems. Many managers assume their system operates at peak performance but very few actually take the time to perform tests. According to the Irrigation Training and Research Center (ITRC) at the California State Polytechnic University at San Luis Obispo, golf course irrigation system distribution uniformity typically ranges from 50% to 90% and the average system is usually falls between 70% to 85%. If distribution uniformity is not at least 70%. your system could stand improvement or may possibly be in need of replacement! ITRC offers seminars on evaluating irrigation systems, for additional information call (805) 756-2434 or visit the web site at http://www.itrc.org.

Catch can data input into the new Space Irrigation Survey (SIS) auditing software available from the Center for Irrigation Technology (CIT) at Fresno State University can project potential energy and water cost savings based upon actual conditions. Considering that the combined costs of electricity and water in the southwest can range from \$100,000 to \$1,000,000 per year, just improving efficiency by a few percentage points can result in significant savinge. For additional information contact CIT (559) 278-2066 or the CIT web site at http://www.atinet.org/cit./*

Naumann's NorCal News

Gary Carls, CGCS has left his position at Santa Teresa Golf Course to become the Director of Golf Course Operations for the City of Sunnyvale Golf Courses. Under his direction are both Sunnyvale Municipal Golf Course and Sunken Gardens Golf Course and Sunken Gardens Golf Course.....**Terry Grasso** has accepted the Superintendent position at Sequoyah Country Club in Oakland. Terry was the Superintendent at Burlingame CC in Hillsborough prior to his move.....Sorry for the incorrect info last month, Gary Feliciano is now at Tehama Golf Course not Pasadera Golf Course in Monterey......

New Members

Denis C. Kerr Class A The Golf Club at Quail Lodge Brian Goleski Class C Preserve Golf Club Charles E. Mustain Class C Rancho Del Pueblo GC. Thor J. Larson Class C The Golf Club at Quail Lodge Bill Grewhol Associate Ridgemark G & CC Keith R. Giertych Affiliate Growth Products Ltd. Affiliate Bob R. Swain La Selva Consultants Brian A. McCrae NCGA Intern **Poppy Hills** Reclassification Brian Hall Class C to B Cypress Golf Course **Bill Keller** Class B to A Boulder Creek G & CC





Position Available Granite Bay Golf Club Landscape Supervisor/Natural Resource Manager Landscape Supervisor:

Job Description Full Time position that will focus on maintaining the landscape through out Granite Bay Golf Club. Candidate will assist and supervise all required landscape maintenance practices to include but limited to scheduling, supervising, mowing, pruning, design, planting, fertilization, chemical application and routine cleanup.

Natural Resource Manager:

Job Description This area of the job will focus on directing the long-term management of property natural resources as well as provide information, motivation, and guidance to help people living, using working on the property to become better stewards of the land and natural resources.

Qualifications: BA/BS in Horticultural related fields, Natural Resource Management, or any other related fields of study.

Salary: Based on education and experience Hours: Full-time, 40-hour week

> Send Resume to: Granite Bay Golf Club 9600 Golf Club Drive Granite Bay, CA 95746 Attn: Ken Mentzer & Kyle Dykstra (916) 791-8594 Fax (916) 791-8159

NorCalendar

February 14-20 GCSAA Conference & Show

March 6 Stanford GC - Etonic "Enhancing Your Job & Securing Your Future"

March 23 USGA/NCGA at Castlewood CC

April 18 WENTE Media Forum at Coyote Creek

May 22 Club Superintendent's Field Workshop Ruby Hill Golf

June 26 Superintendent - Pro Tournament Green Hills CC

Golf Course Superintendents Association of Northern California 550 Main St., Ste G Diamond Springs, CA 95619

RETURN SERVICE REQUESTED



Printed on Recycled Paper

GARY K. CARLS, CGCS 5847 CORUMBA COURT SAN JOSE CA 95120 FIRST CLASS MAIL U.S. POSTAGE PAID CONCORD, CA Permit No. 62