you.

ing but praise for your publication. Thank

Sincerely yours,

Scottsdale, Ariz.

Letters are welcomed. Please mail

them to: Letters, Golf Course News, P.O.

Letters accepted

Box 997, Yarmouth, ME 04096.

Richard M. Kopplin

Director of Operations

Desert Mountain Properties

Water a consuming issue

Continued from page 10

just a little over an inch of water per week. That, it seems to me, can make it pretty tough to grow grass. It is certain that, with those kinds of constraints, you don't want to waste any water.

According to Gordon, all maintained areas are trimmed with part-circle sprinklers. He tries to limit heads to no more than two per zone. This gives the superintendent the ability to eliminate small portions of the course if rationing is imposed.

You would expect, I guess, that Arizona would have laws regarding irrigation and that special consideration would be given to water waste. Arizonais, after all, a desert. Jim Barrett, a widely known irrigation consultant from Montclair, N.J., indicates that although there aren't any laws, yet, regarding golf course irrigation, the same concerns exist in the Northeast.

According to Barrett, designs are much different today than even 10 years ago. There is much more concern, he says, with uniformity and spacing. There is a great deal of concern with power consumption.

"Management is the buzz word in golf course irrigation today," Barrett indicates. "I can't remember the last design I did that didn'thave computer controls. Our problems are not as severe as some other parts of the country. We don't have continuing water problems, but we are learning from the problems in California and Arizona."

"Better control is the name of the game," says Gordon.

The biggest advance in golf course irrigation management in recent years has been the acceptance of the computer, according to Scott Kuhn of Carl Kuhn Inc. in Seattle.

Scott emphasized that water conservation is not the only concern facing golf course irrigation designers today. "Energy costs have gone through the roof," he says. "With the computer and multi-stage, variable-speed pumps, we are able to save lots of kilowatthours as well

"Some of the new sprinklers will perform very well at much lower pressures than was the case in the past. This helps greatly to

reduce pumping costs." The use of treated effluent to irrigate golf courses has become widespread. System cost increases slightly due to the requirement of specially colored pipe and other equipment. As the demand for these prod-

ucts increases, costs will go down. The use of weather stations, incorporated in the irrigation system, is becoming very common. The weather station drives the computer, Gordon explains. It measures wind speed, direction, evapo-transpiration, rainfall, temperature and anything else you can think of.

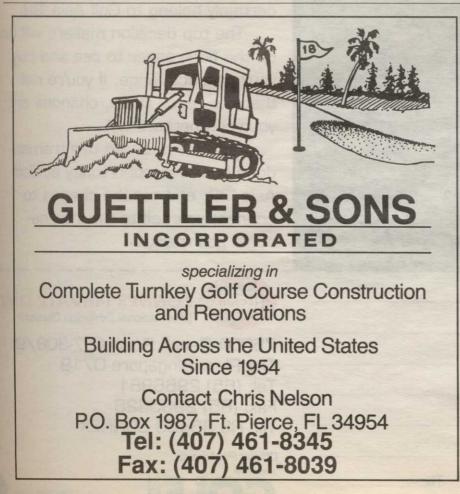
We have obviously come a long way in the past 20 years. Golf course superintendents have been in the forefront of this waterconserving technology. We, of course, have a long way to go. There are still a lot of courses out there with old, inefficient systems.

There are also some very sophisticated systems not being used to their fullest. This is an educational problem that must be addressed.

What is the next step? My guess would be soil-moisture sensing. This is a concept that has been around for almost a century. New technology will make soil-moisture sensing a practical tool in the management of an irrigation system. It will be a valuable weapon in the fight for water conservation.

I can honestly say that my father would be proud of the great strides his colleagues have made in managing their systems and their facilities. He would applaud the technological advances available today. He would certainly like the opportunity to manage a golf course with the tools available now, compared with what he had to work with a half-century ago. I guess that's called progress, isn't it?

The Irrigation Association is dedicated to the conservation and intelligent use of water and all our precious resources. We salute the efforts of the golf and turf management community for their success in this regard. *Charles S. Pepper' Putnam is the new executive director of the Irrigation Association.*



An informative 'read'

To the editor:

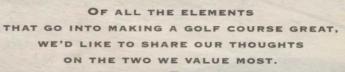
I want to congratulate you and thank you for your Golf Course News publication. It is the most informative publication of its kind that I have seen in my 20 years in the golf industry. I read it cover to cover and I am always amazed at the wide variety of subject matter and the intelligent commentary that comprise each issue.

You have a great magazine and everyone I have talked to in our business has had noth-

Statement of ownership

	12 mo. avg.	Sept. Issue	Sta
A Total # Copies	23,026	24,751	mana tion r
B Paid and/or RequestCirc			Unite
1. Sales-dealer, carrier,			tion 3
vendor,counter	0	0	News
2. Paid and/or Requested	20,263	22,125	by U
C Total Paid and/or Requested Circ	с.		Inc.,
(sum of B1 + B2)	20,263	22,125	Yarm Publis
D Free Dist by Mail, Carrier			Brech
or other means			Mark
Samples, complimentary, other fre	e 2,043	1,839	Editor ing ac
E Total Distribution			995, Y
(sum of C + D)	22,306	23,964	The o
F Copies not Distributed			E. Go Yarmo
1. Office, overs, spoiled copies	702	787	J. G.
2. Return from news agents	0	0	Box 9
G Total Issues (equals A)			04096 holde
(sum of E + F1 + F2)	23,026	24,751	other
			-

atement of ownership, gement and circularequired by Title 39 d States Code, Sec-685 for Golf Course ISSN 1054-0644 shed 12 times a year nited Publications, 38 Lafayette St., outh, ME. 04096. sher: Charles E. von nt. Managing Editor: Leslie. Associate r: Peter Blais. Mailddress is P. O. Box armouth, ME. 04096. wners are Theodore rdon, P. O. Box 995, outh, ME. 04096 and Taliaferro, Jr., P. O. 995, Yarmouth, ME. . There are no bonders, mortgages, or security holders





Many people have the idea that planning a golf course happens with some quick sketches on a cocktail napkin and a hurried glance at the property. Construction begins with a champagne reception, and ends after a few local celebrities tell jokes on the first tee. We know better.

Good results require good people. People who take the time to acquire firsthand knowledge of the site. People who are knowledgeable to begin with.

It takes a group that's willing to walk the land. It takes a commitment to walk it again. And again. In a nutshell, it takes lots of walking.

When it comes to details, we prefer those that make sense. Responsibility doesn't end after the grand opening. Simply put, the details of today shouldn't detract from the bottom line of tomorrow.

We know better.

We'd be pleased to discuss your needs. We promise to use the door mat.

ARTHUR JACK SNYDER, GOLF COURSE ARCHITECT, ASGCA, GCSAA, ASLA (602) 840-2621 FORREST L. RICHARDSON, GOLF COURSE ARCHITECT (602) 266-1301 GOLF MANAGEMENT INTERNATIONAL, PROJECT DEVELOPERS & MANAGERS (602) 957-7510 TIFFANY CONSTRUCTION, EXCAVATION & GENERAL CONTRACTORS (602) 276-2414 WILLIAM HOWARD, FINISH GRADING CONTRACTOR (602) 486-4179 GOLF GROUP LTD., MARKETING, IMAGE & SIGNAGE CONSULTANTS (602) 266-1301

GOLF COURSE NEWS