

THE BULL SHEET, official publication of THE MIDWEST ASSOCIATION OF GOLF COURSE SUPERINTENDENTS.

DICK TREVARTHAN, Editor
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Frankfort, Illinois 60423

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The President's Message

Many of us have an insatiable desire to know all that we can about the future. There are people who will not engage into a new venture of their business or profession without consulting their horoscopes. Years ago, gypsies made a living reading the palms of the gullibles, and even today we have the "palmist and fortune tellers" who are still operating in our larger cities and making a profitable living.

Yet, would life be worth living if we could predict exactly what was going to happen? If we were given a scroll with a resume of everything that was to happen to our future life, would we read it? I think so — because our human curiosity is very strong and we would be unable to resist not to. However, if we did read it, we would destroy that which makes life interesting.

Life is an adventure into the unknown, and it is this fact that makes it interesting and challenging. We as golf course superintendents are constantly in a position where we must take chances. It is impossible to predict what the eventual results may be or what the course of reaction may be. The successful and capable superintendent is one who will take a chance. True, we all have a great deal of experience, knowledge, and resources to work with, but there is constantly a demand for decisions to be made. We are all compelled to choose a certain course of action.

It is the belief by most of us I'm sure, that man is a born adventurer. One of the strongest desires within the normal human personality is the wish for more knowledge and new experiences. Every experience we have should enrich and enhance our life. We are a part of everything that we meet. We should realize this and take full advantage of every experience that comes our way.

Every moment of our vocation has its molding effect upon the future of our profession. Some of the ideas, concepts, and beliefs of our past superintendents not only have helped to determine the present, but they will continue to have an influence on the future to the extent that these concepts are understood and incorporated into present day experience. Remember the pioneers of our profession and some of the things they were able to bequeath to us from



Wm. R. Smith

WM. R. SMITH RETIRES

On February 9, 1928, Bill Smith came to work at George A. Davis, Inc., as a delivery and service representative. At that time he was 120 pounds at fighting weight and too light for heavy work such as lifting 200 pound bags of Mowrah Meal, Sulphate of Ammonia and other chemicals. Would you believe that he mastered that trick at his size?

In the fall of 1928 he became full time sales representative and has served in that capacity continuously for 40 years. Needless to say, Smitty, is a scotsman by birth and habits. He possesses these basic virtues which please any employer: honesty, responsibility, industry and loyalty. In 40 years Smitty never asked for a raise in pay. Throughout his life, Bill has enjoyed good health. Some years ago he became too heavy for light work. This slowed him down physically but not mentally. His employers and associates will miss his friendly personality but wish for him many happy and enjoyable years ahead. He hopes to show his face at Superintendent functions from time to time.

both the past and from their own experiences. Look around you, and you will be amazed of how much these great professional gems still surround you every day. Of course today I feel the young superintendent comes to us much better equipped, because of the universities, short courses and the many conferences. All this has been a real contribution to our particular field. And tomorrow should be even greater for all of us who are privileged to live today and tomorrow, and know we have so many dedicated and learned men directly or indirectly connected to our chosen profession.

But it is also high time that we use the mental skills we have to accomplish a better relationship between ourselves and our associations. The harmony of the associations, the tranquility of human relationships is a task for everyone of us. When we are willing to put as much effort into understanding and good will as we are putting into self and personal promotion, we will have a better and enjoyable association for our heirs to belong to. But this will not happen of itself, it will only occur if you and I let it.

Ed Wollenberg, President

O. J. NOER MEMORIAL LIBRARY **Established at Michigan State University**

The O. J. Noer Research Foundation, Inc. has donated the personal turfgrass library collected by the late O. J. Noer to Michigan State University.

Charles G. Wilson, Research Director of the Foundation, announced the establishment of the O. J. Noer Memorial Library, and indicated that the addition of the Library to the existing turfgrass library at MSU makes the combined library the largest single collection of turfgrass literature in the world.

A bulletin will be prepared compiling a list of all turfgrass publications now available at the Michigan State University Library. This bulletin is being prepared in cooperation with Dr. James B. Beard, MSU Department of Crop Science, and the University's Science Librarian, Dr. M. Kabalin.

This collection will be available to students and scholars throughout the United States. Wilson stated, "I am pleased to announce that this valuable collection of turfgrass literature will be available to all turfgrass students and scholars through an inter-library loan agreement. Arrangements can be made with local libraries to have specific publications loaned to local libraries for a period of time or preferably to obtain a xeroxed copy for a nominal fee."

Michigan State University was organized in 1855 as the first agricultural college in the United States. Library Director Dr. Richard E. Chapin, who hopes to make the library the finest of its kind, stated that the University has a rapidly growing overall collection approaching 1,500,000 volumes. In addition to the Research Library and Undergraduate Library, the main building is housing a separate Science Library containing material in basic sciences and in applied sciences like agriculture, home economics, and medicine. The Library is generally strong in natural sciences, particularly in the fields of plant sciences. Thus it is certain that the O. J. Noer collection will be very well complemented by excellent existing collections in the related fields.

The O. J. Noer Research Foundation, a non-profit organization, was founded in 1959 to promote scientific research in turfgrasses and related fields, to train

graduate research students by offering financial assistance, to disseminate the results of such research, and by so doing, to honor this continent's most widely known and respected turfgrass agronomist.

Although MSU now has the largest turfgrass library in existence, Wilson indicated that it is not yet complete, and that the O. J. Noer Research Foundation is actively promoting donations to the O. J. Noer Memorial Library at Michigan State University. The goal is to make this collection as complete as possible. Interested individuals possessing proceedings of turfgrass conferences, old U.S.G.A. Green Section Bulletins, Turfgrass Culture publications, the early publications of the Golf Course Superintendents Association or similar publications are encouraged to contact Wilson at P. O. Box 2079, Milwaukee, Wisconsin 53201.

Future plans call for the development of a vertical file system at Michigan State University containing Noer's historical collection of slides and pictures of various phases of the turfgrass industry.

APRIL SPEAKER AT THE MAGCS MEETING WILL BE RICHARD ROBINETTE

Mr. Robinette is the assistant regional director of the U. S. Department of Labor Wage Hour.

He will explain the Provisions of the Fair Labor Standards Act. Many changes have been made in the 1969 law. He is depending on the group to ask questions. He can't inform us if he doesn't know our problems.

WHAT'S NEW!!

Oscar Miles, Olympia Fields C. C. reports that a Topography Map has been made up for their entire south course, so a master plan for drainage can be made. Oscar also reports that three men from Penn State are now working at Olympia, one being James T. O'Connor (Canadian lad) who will be the new foreman of the South Course, the other two being first year men at Penn State will just join the crew. All three men will live at Olympia if any other Penn State men in the area would like to contact them.

Billy Dicks, a turf student at University of Illinois, will spend this summer at Joliet C. C. with Oliver Miles, whereas his brother, Tim Miles, will be Oliver's assistant.

Toney Meyer, Superintendent at Woodridge Golf Club, has planned 6 tees to A-20.

Mike Bavier, Superintendent at Calumet C. C., has a new chain link fence around part of the property. Mike says the purpose of the new fence is to keep the Poa annua in for the July MAGCS meeting at his club.

Howard Baerwald, Superintendent at La Grange C. C., has started installing automatic irrigation at his club with his own crew.

Peter Voykin, Superintendent at Idlewild C. C. has made another application of high calcium limestone on his fairways.

Julius Albaugh, Superintendent at Westmoreland C. C., is about ready to start construction on his new maintenance building along with a new halfway house and two new tennis courts.

Mr. Doug Jabaay announced that he will be moving to Fox Den C. C., Knoxville, Tenn. He expressed warmth and appreciation to the membership for the friendships he has made in the past nine years.

I hope this writing finds Wes Updegraff, Superintendent at Oak Park C. C., out of the hospital and back to work.

Mr. Charles Vance, guest speaker at the March Meeting of the MAGCS, left us with these thoughts.

1. Invite members of the press to play golf at your club.
2. Accept speaking engagements with clubs or associations.
3. Have a bulletin board in the clubhouse, and discuss important problems with the members.
4. Tell the Golf Course Superintendents' story.
5. Sell your club and industry.
6. Show your public professional image.

A "Intent to Attend Card" will be mailed to all MAGCS members for the April meeting. It will be mailed along with the regular monthly meeting notice. Be sure to fill yours out and return it promptly, so that the number of people can be more accurately accounted.

A test mailing of the Bull Sheet, to be sent out to all members first class, will be made after the printing of the new roster.

A motion was made that the MAGCS secretary compose a letter to the National GCSAA concerning the recognition the superintendent receives when he visits another club out of the area. We feel he should obtain the same privileges a golf Professional does when he visits another club.

It was announced that 700 more attended the Miami GCSAA conference than San Francisco.

Ted Sokolis has just completed construction on a new bridge at his course, the Village Links.

Rodger La Rochelle, Superintendent at Woodmar C. C., is in the middle of a cottonwood tree removing program. So far this winter they have removed 80 trees, average size 30". Also, a new office is being built for him. Harold Frederickson, Superintendent at Edgewood Valley C. C., says his members are looking forward to playing his new 10,000 sq. ft. No. 11 green along with two new tees. Harold also says they have installed a 600 tree nursery and are preparing to stolonize a 40,000 sq. ft. C-15 nursery.


Jack Bulter is back at University of Illinois after sabbatical leave in sunny Florida, at the University of Florida.

Dr. James Beard, Michigan State University Turf Department head, is chairman of the International Turf Congress. First meeting to be held in England.

Dr. Daniels, Purdue University, Midwest Regional Turf Foundation, will start a 5 month Sabbatical leave April 15. The leave will take Dr. Daniels to Sweden, Germany, England and Holland. He will also participate in the International Turf Grass Congress in England, July 17-19.

Dr. Fred V. Grau of College Park, Maryland, was named the 1969 recipient of the Green Section Award of the United States Golf Association.

"A PERFECT LAWN THE EASY WAY" by Paul Voykin, is out on the news stands and is going fast. To my knowledge this is the first time a golf course superintendent has written a book.



the grass people

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RECORD'S RECORD

By Lee Record
USGA Green Section
Mid-Continent Agronomist

I have been asked by Dick Trevathan, your Bull Sheet editor, to continue with a short newsy column to replace the one Jim Holmes carried out during the past two years. This is an honor, and I will make every effort to include timely and interesting material throughout the year.

Last September I arrived in Chicagoland to begin a new assignment as Mid-Continent Agronomist for the USGA Green Section. Previous to my arrival, I worked with Al Radko, Eastern Director and National Research Director of the USGA Green Section. Working with Al and with the mid-Atlantic and eastern golf course superintendents was indeed a pleasure. I am now looking forward to working with golf course superintendents of the mid-continent region.

Topics of labor and *Poa annua*, still monopolizes daily conversations. Communication between superintendents and employees is an answer in dealing with many labor problems one faces each day. The new Federal Wage Law which went into effect February 1, 1969, will tighten many labor budgets during the coming season. Time and one half will be the rule rather than the exception after forty hours of work if the gross income at your club exceeds \$250,000.00. For more information on the federal wage law contact United States Department of Labor, Division of Wage, Hour and Public Contracts. Bookkeeping is becoming an integral part of turf management. If you haven't kept a good set of books before, now might be the time to begin.

Dr. James B. Beard of Michigan State University brought up the following points concerning *Poa Annua*, during the 39th Annual Michigan Turf Grass Conference. *Poa annua* begins optimum root growth between 50 to 60 degrees F. Shoot growth is optimum between 60 and 70 degrees F. When *poa annua* comes under moisture stress, stomates close, transportation ceases, and leaf temperatures may jump 10 to 15 degrees F. within 5 to 15 minutes causing high temperature kill. Complete kill has been noted at

104 degree F. Under low temperature kill, *Poa annua* is intermediate. When comparing *Poa annua* and creeping bentgrass under identical environmental conditions we find the following:

	<i>Poa annua</i>	Bent
Disease Tolerance	Intermediate	Low
Shade Adaptation	Good	Good (creeping) Inter. (Colonia)
Leaf Texture	Intermediate	Fine
Rate of Establishment	Intermediate	Slow
Close Mowing	Excellent	Excellent
Fertility Requirements	High	High
Soil Compaction	Good	Poor
Rooting Depth	Good (favors compaction)	Good
Drought Resistance	Poor	Fair
Wilt Tendency	High	Medium
Submersion Tolerance	Fair	Excellent
Recooperative Potential	Poor	Good
Smog Tolerance	Fair	Excellent

Although conditions favored *Poa annua*, a report from British Columbia showed that between a period of May to August, one *Poa annua* plant had in excess of 360 seeds.



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Corrosion is the deterioration of metal by chemical or electro-chemical reaction with its environment. The presence of moisture and oxygen is usually essential to corrosion and an acid solution will accelerate the action.

All metals have a tendency to dissolve in water, potassium heads the list for it dissolves explosively in water, while gold is almost insoluble.

Electrolysis is caused by placing two dissimilar metals in an electrically conducting solution, this must be scrupulously avoided where ever economically possible. This can be done by choosing metals grouped as closely as possible in the following Galvanic Series. As an example severe corrosion can be expected in a steel pipe nipple when it is screwed into a copper or brass pipe fitting.

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1. Select metals close together in the above Galvanic Series.
 2. If this is impossible, insulate different metals.
- C. E. (Scotty) Stewart

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Motor Horsepower	Size of fuse for 220 volt circuit	Size of fuse for 440 volt circuit
5	25 amperes	15 amperes
7.5	40 "	20 "
10	45 "	25 "
15	70 "	40 "
20	90 "	50 "
25	100 "	50 "
30	120 "	60 "
40	160 "	80 "
50	200 "	100 "
60	240 "	120 "
75	300 "	150 "
100	400 "	200 "

When a golf course superintendent changes positions one of the many things he has to check in his new assignment is the fuse size in the pumping plant motor control. A fuse which is too light to carry the load gives constant trouble by blowing; whereas a fuse which is too heavy can result in a burned-out motor winding.

The above table compiled from the current issue of the National Electrical Code gives the correct sizes of fuses to use.

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COST ANALYSIS—SEVEN CLUBS

Donald Gerber
Raymond Gerber

There have been many discussions on golf course and club grounds maintenance costs. Most golf course superintendents know by talking to one another that unless one understands the bookkeeping system used at a specific club, there is little to gain by just "getting the total cost figure."

When this seminar was in the planning stage, one of the topics to be given consideration was the golf course and club grounds maintenance budgets. We were sure that by having a properly completed questionnaire, information could be presented that would explain the variations in maintenance costs at comparable clubs.

A detailed questionnaire was submitted to seven golf course superintendents at comparable courses. The resulting information produced the following replies to the often used question, "What is your budget for this year, 1968?" Seven clubs replied: \$86,000,

\$94,000, \$96,000, \$98,000, \$120,000, \$153,000, \$174,000 — a difference of \$88,000 existed between the highest and lowest amount.

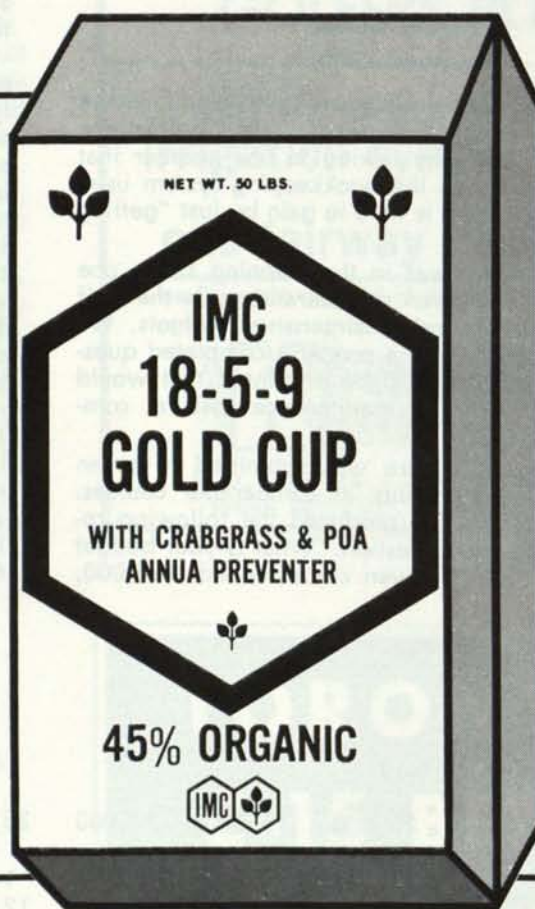
Expenses were listed under the following items: superintendent salary, assistant superintendent salary, labor, gas and oil, sand, soil, seed, fertilizer, chemicals, flowers, education expense, equipment repair, equipment replacement, electricity, water, landscaping (trees), winter sports, other sports, new construction, and other expenses. The results were charted. It was immediately obvious from the following chart that two items, landscaping and new construction, were inconsistent. One club reported an expense of \$58,000 for trees, shrubs and new construction; other clubs reported no expense for this item, which could be interpreted to mean there actually was no expense involved or that a special fund had been created. If the total amounts stated previously were reduced by expenses reported for landscaping, new trees and new construction (which are not necessary consistent annual expenditures), the high is \$116,000 and the low \$80,000 — a difference of \$36,000 compared to the original difference of \$88,000.

Course Number	1	2	3	4	5	6	7	Average
Rounds of Golf	20,000	15,000	20,000	26,000	25,000	25,000	No Record	19,000
**	1,2		2	1,2	1,2	2		
Supt. Salary	13,200	18,700	14,500	12,000	11,000	14,500	13,000	13,877
Asst. Supt. Salary	8,400	↓	--	8,400	--	8,500	↓	8,433
Labor	54,400	57,800	46,500	40,000	50,000	39,200	52,000	51,000
Gas & Oil	2,700	1,600	2,300	1,600	2,200	1,600	1,600	1,940
Sand	3,000	1,000	1,200	2,000	800	800	↓	1,466
Soil	800	500	500	--	*4,500	--	1,500	560
Seed	900	2,000	↓	↓	600	400	600	900
Fertilizer	3,500	2,000	7,100	4,000	2,900	3,600	6,000	3,600
Chemicals	5,000	4,500	↑	3,800	2,000	3,000	2,800	3,517
Flowers	1,000	500	200	1,000	135	400	--	447
Educational Exp.	800	300	600	1,000	500	600	--	560
Equip. Repairs	7,000	2,500	3,000	4,000	1,500	4,000	2,500	3,500
Equip. Replacement	10,000	4,300	4,200	14,000	3,000	6,306	7,100	7,700
Electricity	3,400	900	--	--	--	--	--	--
Water	--	2,000	--	--	--	--	--	--
Landscaping, Trees	20,400	12,725	--	Inc. Flowers	4,600	--	5,000	--
Winter Sports	--	--	--	--	--	--	--	--
Other Sports	--	--	--	675	--	100	--	--
New Construction	38,000	28,000	17,700	--	3,000	--	12,000	--
*Other Expenses	2,000	13,550	--	3,800	2,000	2,800	15,640	--
	174,500	152,875	97,800	96,275	93,735	85,806	119,740	--
Less land & new construction	58,400	40,725	17,700	--	7,600	--	17,000	--
	116,100	112,150	80,100	96,275	86,135	85,806	102,740	--

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