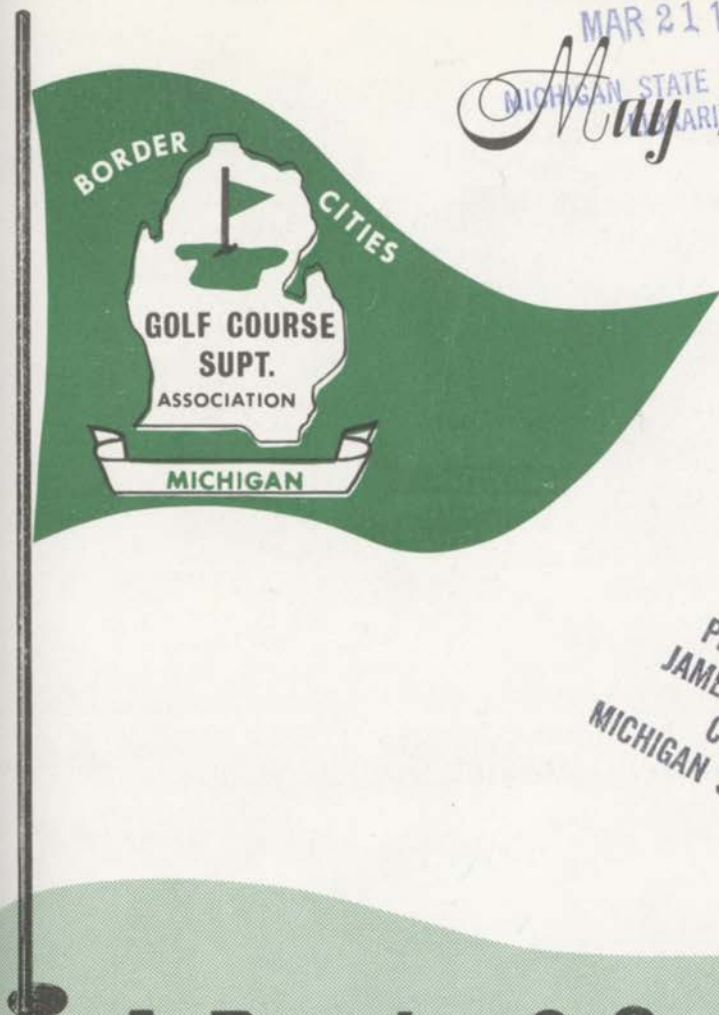


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A Patch of Green

Official Publication of the

Michigan & Border Cities Golf Course Superintendents Association

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We have copied the Code of Ethics of the Golf Course Superintendents Association of America - All points are applicable to all of us.

GCSAA

CODE OF ETHICS

To the end that confidence and respect may be enjoyed by the members of our Association, the Code of Ethics is promulgated and observance of its provisions required.

Every Member shall take pride in his work and regard it as a profession in which all Members shall strive to maintain its good name.

Realizing that the best asset that a Member can have is thorough knowledge of his profession, he shall constantly try to improve his knowledge and effectiveness by freely exchanging experiences and ideas with fellow Members and take advantage of all opportunities for improvement.

He shall endeavor to maintain courteous relations with employers and associates, and encourage his employees to take pride in doing their work well. In accomplishing his own and the Association's best interests, observance of the following suggestions is recommended.

SEEKING EMPLOYMENT

1. Seek counsel of local chapters when applying for a position in a new

district.

2. Recommend only GCSAA members; if not a National member, recommend local chapter members.
3. Ascertain the salary levels in the district in which you are seeking employment; then uphold that level.
4. Be sure the position of Golf Course Superintendent is open at a club before making application.
5. If possible, talk with the man who last held or now holds the position of Golf Course Superintendent.

VISITING

1. Present GCSAA membership card when visiting.
2. Always call on the Superintendent of the course you are visiting.
3. Honor requests for technical help from golf courses only when channeled through Superintendent of the course making the request.

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1. It shall be unethical for a GCSAA official to use his office in product endorsement.
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MBCGCSA Public Relations

April really got under way with our Detroit News articles. Bob Hope opened with a fine article on "To Sod or Seed" that's the question faced by every new home owner. Don Oslund was next with an excellent article titled "What Kind of Lawn Food to Use." Gary Bartsch was the first of our writers to feel the punch of advertising as the last part of his outstanding article on "What Kind of Grass to Sow" was cut by a last minute advertisement. The article was so well done that most people did not realize the complete article had been cut. Jim

Timmerman wrote "What to do about Thatch in Lawns." Those of us who worked the Pontiac Garden Show know how often this question was asked and Jim certainly gave the answers. Clem Wolfrom was absolutely timely with his article on "Time to Hit Those Dandelions." Those yellow heads started to appear the following morning and homeowners who read Clem's message should be well prepared. Again our Superintendent's Association feels proud of the contributions made by these men.

- Don Benham

1971 MEETING DATES

DATE	PLACE	HOST
May 24	Plum Hollow	Ward Swanson
June 10	Highland Meadows	Don Ross
June 28	OPEN DATE	
July 13	Borough Farm	George Prieskorn
Aug. 3	Selfridge Field	
Aug. 24	Davison C.C.	Robert Minto
Sept. 14	Field Day	MSU
Sept. 20	Golf Day	
Oct. 12	Maple Lane	C. Wolfrom
Oct. 26	Red Run	Roger O'Connell

National Golf Day

Twenty of our MBCGCSA members attended the National Golf Day at Raleigh House in Southfield. Proceeds received are used to support National Golf Day, a portion of which is given to our Golf Course Superintendents Association of America for Research and Scholarships.

Support your Club's drive for funds in the National Golf Day Tournament. WE reap the harvest.

MBCGCSA April Meeting

A rainy day greeted us on our first golf outing and meeting of the year. Some golfers braved a few holes before turning back to the club house. Host Danny Uzelac served refreshments and other hospitalities for the remainder of the day.

After a huge delicious steak dinner Danny introduced us to his lovely wife Dorothy and his energetic and amazing father Mike. The operation at Dominion Golf Club, Windsor is a family project - and a very friendly one too!

Our educational program consisted of a film supplied by IMC entitled, "Make it Happen" starring Julius Boros. It was an excellent motivation type of film. We can all thank Gene Johanningsmeier for making the arrangements with IMC.



Danny Uzelac and his wife Dorothy.

Thanks to the Uzelac family for opening our season with such an enjoyable day, despite the weather.

MEET THE BOARD

Bill began his turf work at Meadowbrook Country Club where he caddied for six years. He moved up to Locker Room Attendant for one year. From the locker room he moved out the back door to the golf course as part time labor during the summer months of high school.



Bill Madigan

After graduating from high school and 25 months in the U.S. Army he returned to Meadowbrook C. C. In April of 1962 he became Superintendent of the Royal Oak Golf Club. Bill attended the winter short course in turf management at the University of Illinois.

In 1965 he moved to the Flint Golf Club as Superintendent. After two years at Flint he moved to Forest Lake C. C. in 1967 and then on to Jackson C. C. in 1969. He says he is there to stay.

Bill has been married nine years to his wife Sandy. They have three boys; Brent, Bryan and Bruce. They live at 3425 Cambridge, Jackson, Michigan.

This is Bill's third term on the Board of MBCGCSA, and he is also on the Greens Committee of the Golf Association of Michigan.

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Drought

The weather statistics for southeast Michigan reveals that April was the driest April in over 25 years.

Less than one inch of rain fell in most places. This, coupled with persistently cold temperatures, has caused many desiccated areas on our courses. Little damage is noticed on greens but many tees, approaches, aprons, and collars are dead.

Usually we find these spots on elevated areas of *Poa annua* or puffy bent. Some of the Superintendents have over seeded and spiked, but because of the cold temperatures, there has been little germination and growth.

Organic fertilizers have been slow to react - It's too dry to use weed killers on our broad leafed weeds, and Washington bents refuse to turn green.

Let's hope May is a little warmer and wetter.

MSU Turfgrass Field Day Date Set

September 9, 1971, has been set as the date of this year's Michigan State University Turfgrass Field Day at the Corp Science Field Laboratory on the MSU campus. The Field Day, which will begin at 9:30 a.m., will review all of the current research projects. As always, this should prove to be a very worthwhile experience for all who attend.

Also, for those who are interested in sod production in Michigan there is a Sod Producers Field Day scheduled for Tuesday, June 29, 1971. This Field Day will be held at the Michigan State University Muck Experimental Farm near Laingsburg, Michigan. It will be held in conjunction with the national meeting of the Sod Producers Association of America. All professional turfmen in Michigan are encouraged to attend either of both of these two educational events.

The Role of Industry in Pesticide Development

CONTINUED FROM LAST MONTH

The Role of Industry in Pesticide Development is a presentation given by William Klomparens, Agricultural Research and Development, The Upjohn Company, at the 41st Michigan Turfgrass Conference at the Kellogg Center, Michigan State University, January 26 and 27, 1971.

A FEW FACTS AND OBSERVATIONS

Population growth is really the issue. We simply *must* feed, house, and provide health care for increasing numbers of people - not just in the U.S.A. - in the world.

The now famous Pogo quotation, "We have met the enemy, and he is us." remains on target as THE issue.

Only 2.2% of fish kills in 1968 were attributed to pesticides according to the Federal Water Pollution Control Administration, this rose to 14.9% in 1969,

Let's get this in perspective. We are one of the smaller, variable factors, and willing to help.

How about DDT and those thin eggshells? Most studies utilized dosages above that which should be naturally encountered. The results were extremely variable with no effect on several species. In fact, some investigators report a slight thickening. (Nature, May, 1969).

Presumably quoting Wurster in Science (March, 1968), the Kalamazoo Nature Center Bulletin contends that DDT contamination of the ocean would... "inhibit algae in the ocean from producing 70% of our oxygen, etc." This is so ridiculous it scarcely merits a rebuttal. What does *et cetera* imply? What is the basis for the state-

ment? The original Wurster article is subject to additional interpretation:

Even though DDT has a water solubility of only 1.2 parts per billion, the test on the algae employed 500 parts per billion of DDT - a 400-fold increase, achieved by putting it in solution with alcohol. There apparently was no effect on the algae at 1.2 PPB but there was at the times 400 level.

Now, how does one interpret this from a practical standpoint? M. Sobelman who explained this to a committee of the Nebraska State Legislature, interpreted that if all of the world's production (300 million annual pounds) was intentionally added to the oceans, and no breakdown occurred, it would take 9,000 years to get to 1.0 part per billion, which is, to date, a no-effect level.

This is not to defend DDT, but if I were to defend or judiciously modify the use of one single, threatened pesticide, DDT would be my choice. There may be satisfactory, shorter residual replacements but most of us do not know what they would be. Short residual activity, of itself, can be a false misleading goal. We should methodically search for a SATISFACTORY replacement - satisfactory from all aspects - safety, benefit, experience, and economy. Those who think that TODAY we can "reach over into the basket" and pick out another one, simply do not know what they are talking about.

"Ban", applied to DDT, is a very inappropriate word. The pesticide, the problem and the consequences are too large and too complex to be blissfully railroaded to extinction by public fervor and ill-considered legislation.

Advantages must be weighed against disadvantages:

Just before World War II, a malaria
Continued on next page

Industry Role Cont.

epidemic in Ceylon killed 80,000 persons, with 1,500,000 reported cases. A DDT spraying program, begun after the war, reduced the confirmed cases to 17 by 1963, DDT use was stopped in 1964. In the first two months of 1968, 59,000 cases of malaria were confirmed, with the total estimated at over one million cases. (HEW, Atlanta, Ga., 3/20/68)

Are you DDT opponents remorseful over your part in this misery? Have you had malaria? I have.

We understand that Norway, Finland, and Sweden (the leader) have rescinded their bans on DDT in order to protect their forests.

They are fortunate in their timing. There is still some DDT available.

WILL AGRICULTURE REMAIN DEPENDENT UPON PESTICIDES?

I think so. There is an increasing movement toward research on non-chemical control methods but little

optimism for quick solutions is expressed in the predictions which I have read. In any event, as shifts are made toward non-chemical control methods or to biological controls, there will be similar, if not identical problems to be faced. *There will be nothing magical about other methods! Long-term effects, imbalances and adverse effects will have to be faced and solved! We will come full circle.*

IS THERE BIAS IN THIS POSITION?

I'm afraid there is. The subsequent tabular data are honest and factual but then, there is bias on the other side too. It is difficult to envision objectivity maintaining itself among those so recently thrust into the limelight. Surely, some must work hard at clutching to their breasts this image of "crusader," "spokesman," "expert" or "savior." Bias is their podium - adulation their lectern.

Some impugn the industrial scientists by referring to him as a "scientist" - e.g., in quotes - and contend that we must know more than "How they (pesticides) affect a few laboratory animals," (Speech - R. McMullan, Sept., 27, '70, New York City, Annual Meeting of International Association of Game, Fish & Conservation Comm's).

WHAT IS THE RECORD ON "SCIENTISTS" AND "LABORATORY ANIMALS"?

Scientists, all scientists, publish, for the most part, their scientific findings. This keeps the game honest. Others in the scientific community then have an opportunity to confirm, challenge, modify, reject or accept both data and the conclusions. In the case of pesticide-oriented scientists (industrial, university, state, federal and private) the safety and performance evidence commonly is exposed to others. It is always and totally exposed to registration agencies by law, when a manufacturer submits for registration. Frequently, outside confirmation is sponsored by federal agencies - agencies who also monitor for residues and for unexpected or

Continued on next page

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Industry Role Cont.

undesirable effects. Performance guarantees and warnings on labels is more complete in our "permissive" industries (drugs, pesticides, food additives) than in any other industrial activity with which I am familiar.

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TIME	A TYPICAL RESEARCH AND DEVELOPMENT PROGRAM	COSTS
1 YEAR	<p>AGRICULTURAL CHEMICAL MANUFACTURER</p> <p>FROM PLANNED SYNTHESIS OF NEW STRUCTURES, PLUS NUMEROUS INTERMEDIATES OF CHEMICAL MANUFACTURING COME CANDIDATE PESTICIDES.</p> <p>↓</p> <p>THE LARGER MANUFACTURERS ROUTINELY SCREEN THESE CHEMICALS FOR BIOLOGICAL AND PESTICIDAL ACTIVITY - ON PLANTS, SEEDS, INSECTS, FUNGI, FISH, BIRDS, AND MAMMALS.</p> <p>↓</p> <p>FROM AMONG SOME 4,000 CANDIDATE CHEMICALS ONLY ABOUT 40 MERIT FURTHER STUDY AFTER THE ABOVE SCREENING TESTS. THE DATA FROM THE OTHER 3,960 COMPOUNDS ARE FILED FOR FUTURE REFERENCE.</p>	\$ 500,000
2 YEARS	<p>↓</p> <p>MORE EXTENSIVE LABORATORY, GREENHOUSE, AND SMALL FIELD PLOT TESTS USING LARGER NUMBERS OF PLANT AND ANIMAL SPECIES, REDUCE THE 40 CANDIDATES TO ONE OR TWO.</p> <p>↓</p> <p>INTRODUCTORY FIELD STUDIES ON THE MANUFACTURER'S OWN FARMS AT SEVERAL LOCATIONS ABOUT THE UNITED STATES WILL REQUIRE A MINIMUM OF TWO YEARS' STUDY.</p> <p>↓</p> <p>CHEMICAL ANALYTICAL TECHNIQUES MUST BE DEVELOPED TO DETECT RESIDUES IN TREATED CROPS.</p>	\$1,000,000
4 YEARS	<p>↓</p> <p>CHEMICAL PROCESS RESEARCH AND PILOT PLANT PRODUCTION.</p> <p>↓</p> <p>A 2-YEAR FEEDING TOXICITY STUDY ON TWO OR MORE SPECIES OF ANIMALS AT SEVERAL DOSAGE LEVELS - A STUDY COSTING IN THE NEIGHBORHOOD OF 100,000.</p> <p>↓</p> <p>THE PESTICIDE UNDER INVESTIGATION IS NOW OFFERED TO GOVERNMENT LABORATORIES AND AGRICULTURAL EXPERIMENT STATIONS FOR INDEPENDENT EVALUATION.</p> <p>↓</p> <p>CHEMICAL STUDIES INCLUDING THE IDENTIFICATION OF METABOLITES AND THE FATE IN THE ENVIRONMENT.</p>	\$2,000,000
6 YEARS	<p>↓</p> <p>IF THE DATA ARE STILL FAVORABLE THE APPLICATION IS MADE TO THE USDA PESTICIDES REGULATION DIVISION FOR A TEMPORARY PERMIT (1 YEAR) TO ALLOW FIELD TRIALS UNDER A VARIETY OF GEOGRAPHIC AND FAUNAL CONDITIONS.</p> <p>↓</p> <p>FINALLY, ARMED WITH 5-6 YEARS OF CUMULATIVE STUDIES, THE ONE COMPOUND OUT OF THE INITIAL 4,000 THAT HAS SURVIVED IS PRESENTED FOR REGISTRATION. IT HAS TAKEN A COMBINED EFFORT OF CHEMISTS, AGRICULTURAL SCIENTISTS, TOXICOLOGISTS AND ENVIRONMENTAL BIOLOGISTS.</p>	\$4,000,000

NACA, December 1968

Continued on page 10

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CONCLUSION

It is contended, in conclusion, that the current system of finding, establishing safety, approving and monitoring the products of the pesticide industry is good. It is not, and has never been, static. It has been evolving. It is getting more comprehensive and more stringent. It will continue to improve as we gain new scientific knowledge.

The irony of the situation rests in the extremists one-eyed vision. Their pet projects do not seem to be subject to the same scrutiny or ground rules. For example, hypothetically:

If one should consume, at one time, an entire bottle of aspirin, then: If one dies or becomes ill, are the aspirin the problem?

"Obviously, not." "It's a massive overdose and should be interpreted as such."

Aspirin, then, can be excused and not banned.

"Agreed." Let's play by the same rules."

Massive overdoses are subject to some kind of mitigating interpretation. AND -

Relate to me, with absolute accuracy, every single, long-term effect resulting from introducing salmon into Lake Michigan and splake into Lake Huron (and do this before you plant).

"Ridiculous, we can't prove negatives." Agreed" (again) - neither can we."

Finally, and importantly, all believers in pesticides, but particularly the scientific community, must realize that this is largely, very largely, a political issue. Excellence in science will play a minor role. It is unfortunate, but scientific interpretations and judgments are being made by pseudo scientists, by private citizens, by lawyers, and by legislators responding to newsworthy controversy. There is well-organized and well-funded pressure brought to bear by a largely ill-informed, emotional public which frequently reaches the point of willful disregard of scientific opinion.

It is peculiarly fitting to note that we are not the only ones chafing under the onslaught of zealot-generated, inaccurate public opinion. At least one segment of our State Department of Natural Resources is vocal about 'Legislators running the management of state deer herd.' They essentially contend that 'They, the DNR, know what they are doing and do not need this

Continued on next page

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Industry Role Cont.

kind of untrained help.' I think the DNP, in this instance, is right - and we now share a problem. The burden of proof is with the defender, not the accuser!

Recently, this domino effect was well phrased:

"A most discouraging aspect of the pesticide-ecology furor is the fact that an irresponsible charge or accusation can be made on the spur of the moment, without cost, preparation, or even mental reflection, but it may take months, dozens of reputable scientists, and untold thousands of dollars to investigate it and determine the truth about it. Then, try to get a newsman interested in it!

It is easier to start a fire than to put it out, and the public will always be more interested in what burned than what was saved."

(Animal Nutrition & Health - Dec., 1970)

This seems to point out (again) the increased need for convening appropriate ad hoc groups, comprised of responsible scientists, (university, industrial, governmental) plus ecologists, plus government-political figures and the media science-writers. Such groups, when they study the issues, will lead to agreement more often than to disagreement. If, in the basic charter, they are given some stature and promised a public audience, they could do much to put the pesticide controversy in proper perspective.

Rational, intelligent decisions will usually result and I am confident that continued discretionary usage of pesticides will become less controversial. Benefits usually outweigh the risks. The consequences of abolition are worse than the problems which spawn them. Industry and its friends will talk if they are asked - but fight if they must!

Admittedly, we do not know everything. Our industrial record is neither

Continued on page 14

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A Winter Disease of Kentucky Bluegrass

This past winter we had an unusual long period of snow cover. This has led to the severe disease injury on some species of Kentucky bluegrass. While one might at first suspect snowmold as being the problem we have established the cause of the problem as due to *Helminthosporium*.

Common Kentucky bluegrass and other *Helminthosporium* susceptible varieties such as Park, Delta, Newport, and Prato have been severely damaged. It is not known if the damage is due to a late fall infection by *Helminthosporium* which weakened the grass plants with the subsequent cold weather destroying the weakened turf; or if the fungus continued to grow and develop on the grass plants in the moist chamber provided by the snow cover much the same way snowmold

does. Regardless of where or how it happened the disease has done considerable damage to *Helminthosporium* susceptible varieties of Kentucky bluegrass. The extent of the damage will not be known until the spring green-up occurs. This points out again the necessity of planting Kentucky bluegrass varieties which are resistant to *Helminthosporium* such as Merion, Fylking, Pennstar, and Nugget in Michigan where *Helminthosporium* disease are such a problem. If *Helminthosporium* susceptible varieties are grown, consideration should be given to applying one or more late fall sprays of a fungicide. Use fungicides such as Daconil 2787, Fore, Dyrene, or Acti-dione Thiram will prevent this disease problem from occurring in the future.

Article submitted by Dr. J.M. Vargas, Jr., of the Department of Botany and Plant Pathology, MSU.

Dr. Rieke on Leave

Dr. Paul E. Rieke; turfgrass, soils, and fertility specialist at Michigan State University; departed on sabbatical leave on March 15, 1971. Dr. Rieke will spend the next six months studying and writing at the University of California at Riverside. He will be evaluating turfgrass irrigation practices which will enable him to do an even better job for the turfgrass industry of Michigan upon his return in September. Best wishes are extended to Dr. Rieke and his family for a pleasant stay in California.

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uniform nor unblemished, but it's good, as good as anyone's. There is some truth. Nothing would persist so long in absence of truth. There are some problems. Obviously, we all can do better. We applaud and support efforts directed toward a cleaner, safer environment. It's our environment, too. We do not object to considered shange. We do object to an out-of-perspective, fear-related, non-selective, unrelenting attack upon pesticides. These attacks are too frequently characterized by misrepresentation, over-simplification, half-truth and universal condemnation. They are directed toward our industry but affect an agriculture and some health services which are *dependent* upon pesticides - and we are dependent upon that small, important agricultural segment for the very essentials of life - food, fiber and health.

Then there is the vast public arena. Those of you in the public sector who think benefits usually outweigh the risks, should:

Become informed

Choose your opponent and reason with him.

Write you political contact.

Talk to the lay public.

Plant an acre of "no pesticides" or do not treat a fairway or a green on your golfcourse (as suggested by the Journal, Top-Op).

Hit them in the pocketbook! End your financial support of those associations taking the radical positions.

DO SOMETHING!

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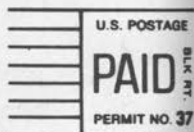
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