

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

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John Berarducci, Pres.

PRESIDENT'S MESSAGE

It was a pleasure for me to attend the National Golf Foundation dinner on December 1. It was especially touching to witness one of our kind, Ray Gerber, given that honorable resolution by Mike Bavier in the presence of Patty Berg, Herb Graffis and other well known people in the golf industry. The evening was a well rounded tribute to a group of individuals, who together and within their own respective professions helped to give the game of golf the stature it has today.

For those of you who couldn't make the Midwest Turf Clinic you missed another supper performance put on by our education committee. It seems like every year we keep getting better and better at coordinating a clinic that is both affordable to attend and at the same time doesn't drain the Midwest bank account.

At our first board of directors meeting in November we made some wholesale changes in our committee's and their direction. Our biggest operating procedural change was in the golf committee. I personally feel that because of the fact that when we hold a golf event we seem to double our attendance at the meeting. We have devised a new format for the coming year that you'll all be interested in. For the first time there will be three flights of medal play competition among all members. We've expanded the golf committee so John Stephenson our committee chairman and Ken Goodman vice chairman will have plenty of support to get the job done. I won't elaborate on details in this article, because the new format will be brought out by the golf committee when they complete the details. Our new Finance and Publicity Committee which was discussed last year and finally brought to a head at our annual meeting, will be the watch dog of all association expenditures. This committee will form a month to month cash flow budget guideline for all committees to follow. The Finance and Publicity Committee will work closely with the Bull Sheet and our Secretary in monitoring incoming cash flow. I'm sure you'll all find the changes we've made will make our association more viable and our meetings more enjoyable to attend.

I hope to see you all at Hackneys restaurant on January 4. I was told it's somewhere on Milwaukee Avenue in Wheeling and I was also told they pour a pretty good drink there! I wish everyone a safe and happy Holiday Season!

John Berarducci

MAGCS BOARD OF DIRECTORS FOR 1982

OFFICERS

President — John Berarducci
First Vice President — Peter Leuzinger
Second Vice President — Roger Stewart, CGCS
Secretary-Treasurer — David Meyer

DIRECTORS

Carl Landgrebe, CGCS	John Stephenson
David Behrman	Joe Williamson
Len Berg	Ken Goodman

The following is a list of office telephone numbers for the entire Board.

Dave Behrman	672-5887
Joe Williamson	219/322-1254
John Stephenson, CGCS	584-9225
Ken Goodman	291-2240
Len Berg, CGCS Emeritus	985-8366
Carl Landgrebe, CGCS	986-5332
John Berarducci	835-4296
Roger Stewart, CGCS	447-1049
Peter Leuzinger	584-3403
David Meyer	529-4303

Be sure Your DUES are paid by March 1st, 1982. If not, your name will not be in the 1982 Membership Directory.



Ray H. Gerber, Mike Bavier

SPECIAL RECOGNITION PAID TO RAY GERBER

Special recognition was paid to Ray Gerber, Editor of the "BULL SHEET" on December 1, 1981 at the St. Andrews Golf and Country Club by the National Golf Foundation. The occasion was the "Herb Graffis Award Dinner" honoring Patty Berg. President of the GCSAA, Mike Bavier, presented Mr. Gerber with the special recognition plaque which reads:

RESOLUTION

Whereas

RAYMOND H. GERBER

has, since 1916

dedicated his life to the Game of Golf, in various capacities

and

WHEREAS, he began his career at Woodhill Country Club, Minneapolis, Minnesota at the age of sixteen and continued there for nine years

and

WHEREAS, he became attached to the Game of Golf because of his admiration of the golf courses designed by Donald Ross

and

WHEREAS, in 1925 he came to the Medinah Country Club in Chicago, Illinois as a foreman during the construction and early maintenance of its three golf courses, became the Assistant Golf Course Superintendent and remained there until 1933

and

WHEREAS, from 1933 through 1935 he specialized in the repairing and maintaining of golf course equipment

and

WHEREAS, in 1936 he became the Golf Course Superintendent at Glen Oak Country Club in Glen Ellyn, Illinois and remained in that position until his retirement in 1970 and today serves as Editor of the "BULL SHEET", the official publication of the Midwest Association of Golf Course Superintendents

and

WHEREAS, he has three times been the President of the Midwest Association of Golf Course Superintendents and in 1950 served as the 14th President of the Golf Course Superintendents Association of America, and has also been awarded the Distinguished Service Award of that organization.

and

NOW, THEREFORE, in recognition of the quality of his leadership, the fine achievements of his professional dedication, and the deep and abiding esteem in which he is held by his peers, the NATIONAL GOLF FOUNDATION hereby salutes and honors RAYMOND

H. GERBER and presents him with a copy of this resolution as a mark of our admiration and appreciation of his dedication to the advancement of golf.

Presented at St. Andrews Golf & Country Club
December 1, 1981

Don A. Rossi
Executive Director

Jim Long
President

Herb Graffis
Co-Founder

As all must agree, Ray Gerber, is well deserving of any and all special recognition coming his way. His many years of devoted service to the care and upkeep of golf courses is beyond comparison. Ray's sincerity, dedication, and knowledge, coupled with being Editor of the "BULL SHEET" has made the publication of the MAGCS the best in the country. We in the Midwest are so fortunate and proud to have such a friend as Ray Gerber.

Fred Opperman, CGCS
Glen Oak Country Club



Patty Berg



Herb Graffis

Dear Ray,
Whoops! There goes another year.
"BLESSED YEAR"

Christmas ends the year, in class.

The New Year, enters with a blast.
While a week exists between the two,

It's most a year before they're due.

To all, the year means work and play,
Some enclosed in every day.

If we're smart and pick and choose,
The blessings, we will never lose.

To make the most of every year,

Be it in our work or play,

Is to give our best, in every way,

Every Blessed Day.

Greenkeeperly;

Kenneth R. Zanzig
Green Garden C.C.

GOOD TURF IS THEME OF CONFERENCE

"The Good Earth Needs Good Golfing Turf" will be the theme of the 26th annual Green Section Educational Conference, which will be held on Wednesday, February 3, 1982, at the Rivergate Convention Center in New Orleans, La.

A number of experts in the turfgrass management field will be among the speakers on the day-long program.

For the second consecutive year, the Conference will be part of the week-long International Turfgrass Conference and Show conducted by the Golf Course Superintendents Association of America. The Show, which will be the 53rd conducted by the GCSAA, annually draws more than 8,000 golf course superintendents, educators, manufacturers' representatives and visitors from all facets of the golf and turfgrass industries.

A highlight of the Green Section Educational Conference will be the presentation of the 1982 USGA Green Section Award. It recognizes distinguished service to golf through work with turfgrass.

The MAGCS Annual Dinner Dance held Friday night 11/27/81 at Indian Lakes Country Club. Dave and Penny Meyer were our hosts. It was not a terrific turnout but those who did attend enjoyed themselves. Nicely, there were enough door prizes donated that each couple got at least one.

1981 MAGCS Dinner Dance Door Prizes & Recipients

Donated by

Chicago Toro

Door Prize - Snow blower

Recipient - James Halloran

Geo. Davis Inc.

Door Prize - Antique Putter

Recipient - Donald Dodd

Country Club Fertilizer

Door Prize - Scissors Set

Recipient - Carl Landgrebe

Roseman Tractor

Door Prize - Bolla Wine Set

Recipient - Bill Richards

Scott's Turf Products

Door Prize - Fire Extinguisher

Recipient - Roger Jury

Scott's Turf Products

Door Prize - Pen Set

Recipient - Mike Bavier

Nels Johnson Tree Experts

Door Prize - Wine and Cheese Set

Recipient - Pete Leuzinger

Thorton Turf Nursery

Door Prize - Clock

Recipient - Albee Staudt

Warren's Turf Nursery

Door Prize - Case Jack Daniels

Recipient - Carl Landgrebe, Tracy Earles, Vern Rascher, Bill Leith, Ed Stewart, Ben Warren, Sterling Hamilton, Bob Breen, Marv Gruening

Nadler Harley Davidson

Door Prize - \$20.00 gift certificate

Recipient - Russ Reed

Nadler Harley Davidson

Door Prize - \$30.00 gift certificate

Recipient - Steve Stewart

Nadler Harley Davidson

Door Prize - \$50.00 gift certificate

Recipient - Nick Pavlovich

Lakeshore Equipment Co.

Door Prize - First Aid Kit

Recipient - Tony Meyer

Lakeshore Equipment Co.

Door Prize - First Aid Kit

Recipient - Jim Reed

Frenzer Inc.

Door Prize - Hot Shot Beverage Maker

Recipient - Roy Hanneman

Frenzer Inc.

Door Prize - Corningware Dish

Recipient - Jim Burdett

Frenzer Inc.

Door Prize - Automatic Juicer

Recipient - Albee Staudt

Frenzer Inc.

Door Prize - Popcorn Popper

Recipient - Dave Meyer

Frenzer Inc.

Door Prize - Pyrex Dish

Recipient - Al Frenzer

Builder's Plumbing Supply

Door Prize - Shower massage

Recipient - Mike Smith

Builder's Plumbing Supply

Door Prize - Shower Massage

Recipient - John Berarducci

Old Dutch Sand

Door Prize - Blender

Recipient - Paul Voykin

McGinty Bros.

Door Prize - Chevas Regal

Recipient - Roger Stewart

McGinty Bros.

Door Prize - Crown Royal

Recipient - Rich Mika

Turf Products Inc.

Door Prize - Norelco Air Freshner

Recipient - Earl Knudsen

BoJo Turf Supply

Door Prize - \$25.00 gift certificate

Recipient - Marv Gruening

Illinois Lawn Equipment Co.

Door Prize - Clock

Recipient - Mike Nass

Illinois Lawn Equipment Co.

Door Prize - Clock

Recipient - Nick Panlovich

Illinois Lawn Equipment Co.

Door Prize - Clock

Recipient - Marv Gruening

Art Clesen Inc.

Door Prize - Serving Dish

Recipient - Ray Schei

Kellogg Inc.

Door Prize - Bird Feeder

Recipient - Dave Behrman

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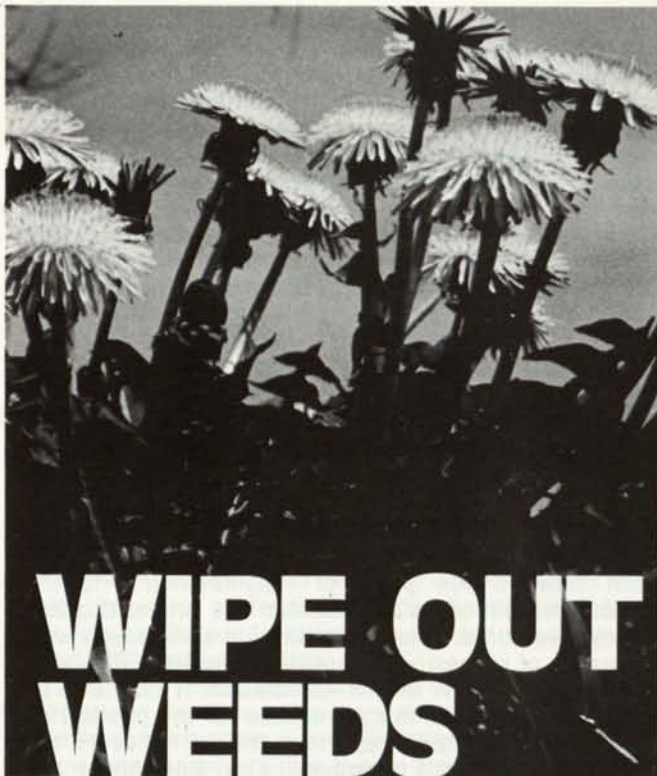
Door Prize - Canister Set

Recipient - Rick Johnson

20 commercial people donated door prizes

43 door prizes total

67 people attended



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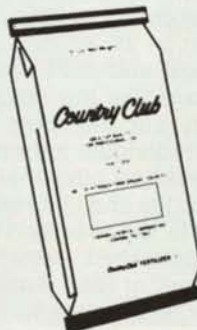
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MONTHS EACH DIRECTOR IS RESPONSIBLE FOR.
ALL SHOULD BE IN THE EDITOR'S OFFICE BY
THE 10TH OF THE MONTH.

NEWSLETTER ARTICLE FOR BULL SHEET:

March - Pete Leuzinger
April - Ken Goodman
May - Len Berg
June - Carl Landgrebe
July - Joe Williamson
August - Dave Behrman
September - Roger Stewart
October - John Stephenson

**MIDWEST ASSOCIATION OF GOLF COURSE SUP'T
GENERAL OUTLINE OF COMMITTEES AND STAND-
DARD OPERATING PROCEDURES**

ARRANGEMENTS & ENTERTAINMENT:

The arrangements and entertainment committee will be responsible for making all necessary arrangements in connection with our regular monthly meetings of the membership. Items that are to be given special attention are: lining up locations in advance, food, prices, seating, public address systems, and any additional items designated necessary by the committee to facilitate a fluid presentation of our meeting. The committee will respect the right of any club to limit golfers and or dinner guests. Such limitations will be governed by this committee, with approval of the Executive Committee, except that attendance may not be limited, (except for guests) at the Annual Meeting.

This committee will be responsible for procuring host club plaques or certificates that will be awarded at the appropriate time approved by the Executive Committee.

Entertainment shall be the responsibility of this committee. Items of responsibility are: arrangements for our Fall Dinner Dance, Hospitality room at the National Conference, as well as procuring all necessary food, beverage and any other commodities with approval of expenses by the Executive Committee.

EDUCATION AND RESEARCH:

The educational and research committee shall be responsible for the presentation of educational programs at our monthly meetings, and shall present the Annual Turf Clinic. It shall organize the results of on the job research practiced by our members at their respective clubs. (Each year individual members who test new materials and methods and offer their results to the membership, this committee shall be responsible for exposing the information to the membership. The information should either be published, presented at a monthly meeting or presented at our Annual Turf Clinic. The committee will be responsible for inducing membership involvement for presentations at monthly meetings and "especially at the Annual Clinic". It shall be the responsibility of the committee to pursue the fulfillment of our desire to have an organized turf research program conducted in the Chicago area and to seek support for that program. The committee shall promote and scrutinize research grants given by this association to local and state institutions overseeing the funds implementation for the betterment of our members. The committee shall make periodic reports for the Executive Committee on the use of research funds granted by this association to institutions and submit to the Executive Committee "for approval" an agenda for the Annual Turf Clinic.

MEMBERSHIP:

The membership committee shall make known the

purpose of our association, by contacting eligible non-members and advising them of our program and benefits so that they will want to join with us in the pursuit of our objectives. The committee shall also screen applicants to insure that they qualify for the class they apply for before presenting applications to the board of directors for approval. The committee shall be responsible for maintaining the honorary memberships and updating when needed. The committee will aid the editor and secretary of duplicate mailings so as this association does not waste funds for postage and stationary materials.

FINANCE AND PUBLICITY:

This committee shall be chaired by the First Vice President. The purpose of this committee will be to act as a watch dog on all association expenditures. The committee will submit a proposed monthly cash flow projection starting January 15th of each year to be used as a guideline for committee expenditures during the year. They shall monitor incoming cash and outgoing cash flow to the point of recommending to the Executive Committee the Associations financial status at any given time. This committee will work closely with chairmen of respective committees and the Editor and Secretary Treasurer of this Association. It shall also be the responsibility of this committee for the publication of a periodic bulletin reporting the activities of our Association and it's members. Our **Bull Sheet** has established a precedent that other organizations are using as a guide. Our publication should continue in the same manner that has been practiced.

EMPLOYMENT:

The President, Past President and First Vice President shall comprise the employment committee. It is the responsibility of this committee to keep our members updated on new job opportunities. The committee shall, if necessary, persuade a potential employer to hire from within our Association rather than hiring an individual from another part of the country. The committee, if needed, will assist an employer in the writing of a job description and provide a mailing list of our members.

The committee shall always maintain and project the professionalism and ethics pursuant to our Association.

GOLF:

The golf committee will be responsible for conducting the golf events at each meeting during the golfing season, weather permitting. The committee shall choose or delegate the authority to someone to organize and pick teams to represent our chapter at the National Tournament. Prizes and awards at our monthly meetings are to be given under the following guidelines:

There shall be three flights of medal play competition among all members except associate class and seniors should they choose not to enter. The flights shall be determined by dividing the total players into three equal numbers, if possible. Handicaps are mandatory for flight competition since winners will be picked under the low net basis. The flights of competition will be Championship, second and third. There will be a first place and runner up prize and award in each flight, possibly more, providing prizes are available. There will be a point system recorded on place of finish from one for first place on up, to as many contestants as are in that flight that day. There will be a minimum of three such golf events during the season with the last event classified as our Annual Tournament. The flight competition events will be posted in the **Bull Sheet** for

advance notice. The events will take place (three events) starting between May 1st through September 30th. The remaining golf events may use any system decided by the golf committee, including scrambles, peoria or calloway events.

At the Annual Tournament the point system for flight competition will be doubled to determine our overall season winners of each respective flight. There will be a first place and runner-up who will receive an award and prize. The flight competition will be a mandatory event for those 54 years and younger, however, there will be an optional event at each golf outing determined by the committee for anyone who chooses to enter. Either peoria or calloway systems will be enjoyed by those 55 years or older who opt not to enter flight competition. There will be a minimum first, second and third place prizes for contestants in events other than flight competition. Providing prizes are available and the committee has an opportunity to set up, there will be a prize for longest drive and or closest to the center line of fairway in fairway only as well as closest to the pin. There will be a prize for first place low net and first place low gross of the senior division. There will be a minimum prize for 1st place low net and 1st place low gross of the associate class.

The prizes should be of equitable value for winners of 1st place in the cumulative flight competition, these will constitute the highest award. Prizes will be of equitable value for winners of other events for the day, such as peoria or calloway, runnersup of flight competition and seniors low net and low gross.

Winner of low gross for the days tournament will receive the most expensive award or trophy with an inscription on it if economically possible, however, this individual will not receive a prize of equitable value to that of flight competition winners, senior first place low net, senior low gross or first place in the other days event. There should also be a nice award or trophy for the senior low gross of the day.

Should the committee deem it necessary, the seniors event could be held separately at the time the Association sponsors Senior Day, which is generally held during the month of July. The committee should be flexible in it's events posting them in advance and describing the rules for competition. One of the over all objectives should be to try and simulate the types of events generally conducted at our golf course.

Our delegate to the GCSAA shall represent the Midwest Association of Golf Course Superintendents, by attending the delegates meeting and by casting the votes of the Midwest Association members who are members of the GCSAA. He shall have full authority to cast these votes in any manner he deems proper or by the guidance of the Midwest Associates Caucus. If any of our GCSAA members wish to cast their own ballot, they shall do so in accordance with GCSAA regulations and by notifying the Midwest delegate. A report of the proceedings shall be given to the Midwest memberships at the first opportunity following the GCSAA meeting.

ADVISORY COMMITTEE:

The members of this committee shall attend the advisory committee meeting at the GCSAA Turf Conference and Show. They shall reflect the attitude of our Midwest Association in an effort to guide the operational program of the GCSAA. The Midwest membership shall be advised of the proceedings of the advisory committee meeting.

COMMITTEE APPOINTMENTS

1982

EMPLOYMENT: John Berarducci, Len Berg,
Pete Leuzinger

FINANCE **Chairman** - Pete Leuzinger
& **Vice Chairman** - Dave Meyer, Roger
Stewart, Joe Williamson

PUBLICITY: **[Non Board Committee Member]** Tim
Kelly

EDUCATION: **Chairman** - Roger Stewart
Vice Chairman - Joe Williamson, Pete
Leuzinger, Dave Meyer

ARRANGEMENTS **Chairman** - Carl Landgrebe
& **Vice Chairman** - David Behrman,

ENTERTAINMENT Roger Stewart

GOLF: **Chairman** - John Stephenson
Vice Chairman - Ken Goodman, David Behrman
[Non Board Committee Members] - Ed Smith
Mike Hart

MEMBERSHIP: **Chairman** - Ken Goodman
Vice Chairman - Carl Landgrebe

January 4, 1982 meeting at 12 noon. Hackney luncheon
in Wheeling. No meeting in February.

GENERAL OPERATING PROCEDURES:

Executive Committee members and any members serving on MAGCS committees shall appear on the GCSAA voting roster as casting votes as a MAGCS Member. Any member not voting with the MAGCS on a national level may attend the MAGCS Caucus but may not take part in the deliberations of said caucus.



Adolph Bertucci has done it again. With the help of Nancy Norman and Nancy Johnson, his Christmas party at Lake Shore C.C. gets bigger and better each year. Approximately 300 attended and enjoyed the assortment of food and liquid refreshments. This editor hopes he will continue to be one of Adolph's many friends.

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BACTERIAL WILT OF TORONTO [C-15] CREEPING BENTGRASS

D. L. Roberts, J. M. Vargas, Jr., K. K. Baker and R. Detweiler

Since its selection in the 1930's, Toronto creeping bentgrass (C-15) has been considered an exceptional turfgrass for golf course putting greens. In recent years, a disorder of unknown etiology commonly referred to as the "C-15 problem" or "C-15 decline" has baffled scientists and turfgrass managers alike. In 1979 and 1980, a disease of unknown etiology destroyed the 'Toronto' greens at the Butler National Golf Course in Oak Brook, IL. Individual plants appeared to be wilting from the tip down and were dark green and shriveled. Initially, roots and crown appeared healthy; however, eventually the entire plant became brown and decomposed. Fungi and other disease causing agents commonly associated with turfgrass diseases could not be isolated.

When transmission electron microscopy was used to ascertain the presence of internal agents in May, 1980, many rod-shaped bacteria were observed in the xylem (Fig. 1) from diseased plants. Individual bacteria measured approximately 0.5 μ m by 1-1.5 μ m and possessed a rippled cell wall (Fig. 2) similar to rickettsia-like bacteria associated with Pierce's disease of grapevines, phony peach disease and other diseases.

Several different bacteria were isolated and tested for pathogenicity on C-15. A frequently isolated bacterium (Fig. 3) produced the characteristic symptoms of the C-15 problem. Scanning electron microscopy confirmed the presence of the bacteria within the xylem of laboratory infected plants (Fig. 4). Because of the symptoms and discovery of bacteria with diseased plants, we elected to name the disease "bacterial wilt" of Toronto creeping bentgrass.

Antibiotic field tests for the control of bacterial wilt were initiated in the Detroit area in early Fall of 1980. Streptomycin and oxytetracycline applied as 600 parts per million (ppm) in 5 gallons of water per 1000 ft² were ineffective. Heavy drench applications of 1000 ppm of streptomycin, oxytetracycline, and cupric hydroxide at 50 gallons per 1000 ft² were made in Detroit (Edgewood) and Chicago (Village Links) locations in early April 1981. Oxytetracycline was observed to give effective control whereas streptomycin and cupric hydroxide did not inhibit disease progression. In cooperation with Peter Leuzinger, St. Charles Country Club, St. Charles, IL., drench applications of 50 gallons per 1000 ft² of 1000 and 1500 ppm oxytetracycline provided absolute control of bacterial wilt (Fig. 5). Scanning electron micrographs of treated (Fig. 6) and nontreated plants (Fig. 7) revealed the prevention of infection in oxytetracycline treated plants.

The discovery of bacteria, the infection by an isolated bacterium and the subsequent management by oxytetracycline proves that the C-15 problem is a bacterial disease. Research on bacterial wilt, the first bacterial disease of a cultivated turfgrass spp., will provide a research basis for combating new or existing bacterial diseases on other turfgrasses.

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MIDWEST BREEZES

The National Golf Foundation held their annual award dinner at St. Andrews Golf Club on Dec. 1, 1981, and it was a great success in every way. The steak dinner was one of the best. Over three hundred thirty were present and had high praise for everything. **Joe Jemsek**, owner, and son **Frank** are to be commended for the fine way that they take care of large crowds; everything went like clock work. **Don A. Rossi**, executive director of the National Golf Foundation, was present and kept everything moving.

Patty Berg, with eighty-one tournament wins to her career, was the recipient of the **Herb Graffis Award**. A special recognition award was given to this editor for his contribution to golf during the past sixty-five years. Speaking for myself it was the nicest thing that could happen to an individual.

On November 23, 1981, **Anne Maureen**, weighing in at 8 lb. 6 oz., came to live with her parents Mr. & Mrs. **Roger Stewart**, Supt. at Riverside C.C. Congratulations!

On November 23, 1981, a girl given the name **Barbra** and weighing in at 5 lbs. 9 1/2 oz. came to live with her mother and father Mr. & Mrs. **Bruce Burchfield**. Congratulations!

January 4, 1982 M.A.G.C.S. meeting will be held at Hackney Inn on Milwaukee Ave., Wheeling, IL. This is a 12 noon luncheon meeting. Be sure and come to this meeting. There will be no February meeting due to the G.C.S.A.A. conference in New Orleans.

Dear Ray,

On September 18, 1981, St. Charles Country Club honored one of golf's best friends, Art Benson, retired golf course superintendent. Over one hundred golfers attended Art Benson Day for lunch, golf, and dinner. Superintendent friends who enjoyed the day were Art Benson Jr., Carl Hopphan, Pete Leuzinger, Amos Lapp, Alby Staudt, and Ray Gerber.

Art was given a plaque and a nice donation for twenty three years of work at St. Charles Country Club. That work included rebuilding the entire golf course, including greens, tees, and traps. He is perhaps most proud of the 3,000 trees and shrubs that were planted on the course during his tenure. Many of the native trees were taken from the neighboring timber and are now thriving.

By now, Art is probably playing golf at West Orange Country Club in Winter Garden, Florida. It is hard to know what to say about a friend like Art Benson. We will miss him, we wish him the best and hope that he has taken a little of us with him.

Pete Leuzinger, Supt.
St. Charles C.C.



The Editor Wishes All of You Health, Happiness and
Good Luck During 1982

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1982 GOLF OPERATIONS HANDBOOK READY FOR DISTRIBUTION JAN. 7

NORTH PALM BEACH, FL — The biggest and most comprehensive of the National Golf Foundation's 20 publications — the **1982 Golf Operations Handbook** — will be ready for distribution January 7.

The '82 Handbook is a 480-page publication specifically planned to assist golf facility developers, owners and operators. Revised annually since it was first published in 1977, the new Handbook contains 60 percent new or revised material.

The '82 Handbook includes 21 new information sheets and 42 revised articles, bringing the Foundation's library of information sheets to 180.

The book contains eight major sections, delineated by tabs in a notebook binder. The sections are: business, clubhouse, golf course, golf services, personnel, promotion, research and player development.

The Foundation is grateful to the many national authorities in the golf industry and to key representatives of the nation's allied golf associations who contributed to the 1982 edition of the **Golf Operations Handbook**.

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only for advice and support... your ProTurf Tech Rep.



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