

Introducing our all-new golf car batteries.

We've gone to great lengths to make sure they'll go the distance.

Longer.

All golf car batteries look alike on the outside, but inside there's a big difference.

This year, we completely redesigned and improved our Action Pack electric vehicle batteries. To give you more mileage, longer life, and an even better value for your battery investment.

No course is too tough for them.

Heat and hills are no problem for these batteries. They'll take everything your course and Mother Nature can dish out. And bounce back to maximum available capacity, charge after charge. Round after round.

Our secrets of longevity.

Inside, we gave our batteries new PVC fiberglass mat separators for greater service life and less internal resistance. Thicker plates and high-density oxide for improved cycle life. Increased electrolyte above the plates, to reduce the chances of low water-level failure. And unique grid-alignment lugs that lessen the possibility of premature shorts.



In all, they're the longest lasting 6-volt electric vehicle batteries we've ever made. And further proof that at Gould, up to par isn't good enough.

MAIL TO:

Gould, Inc.
P.O. Box 43140 St. Paul, MN 55164
Attn: Mark Stump

Yes, I'd like to know more. Please send me your complete Action Pack electric vehicle brochure.

NAME _____

TITLE _____

GOLF COURSE _____

NO. OF GOLF CARS IN FLEET _____

ADDRESS _____

CITY _____

STATE _____ ZIP _____

Or call us, (612) 681-5188

GB 011

 **GOULD**

**Committed to making batteries
better than ever.**



Action Pack EV195 and EV220

Presenting the for your

Options include reel shut off kit, quick height of cut adjustment, 3 rollers, comb, brush/scraper.

Greensmaster 3[®]

Isolated cutting heads give each green uniform cutting height, appearance, playing characteristics.

Spiral thatching blades for more efficient thatching and throwing into baskets.

Quick disconnect reel motor means easy change to spiking or thatching reels.

Turf Pro 84[™]

All wheels are drive wheels for excellent traction and maneuverability.

Reels with independent suspension follow ground contour, improve quality of cut.

Hydraulically powered reels and wheels eliminate belts and gears.

Reversible reel motor permits "backlapping" for reduced sharpening frequency.

You're concerned with not only the appearance of your course but every facet of its playability.

So we're letting you in on some ways we engineer turf care products with you in mind.

Consider this Toro foursome of Professionals.

Our Turf Pro 84[™] is an all hydraulic triplex with the ability to give you the right clip for each desired height of cut and type of grass.

For your greens, our Greensmaster 3[®] still has no equal. Because no other greensmower has cutting heads isolated from the traction unit and grass baskets.

And meet our Sand Pro[®].

Toro[®] Professionals course.

HTM-175™



Reliable 4 cylinder diesel engine with 236 cubes of lugging power for hills and heavy cutting.

Simpler to drive with automotive steering out front. Minimizes operator training.

Exclusive reel couplings mean more freedom to follow ground contour for finest quality cut.

Gentler on the grass with custom designed reel units that weigh 110 lbs. less than our wheel drive gangs.

Sand Pro[®]



Maneuvers completely around in its own length for raking traps and tight "peninsulas".

The only trap rake with total hydraulic power. Plus the lower upkeep, longer life and superior performance that go with it.

Finally, the ultimate in precision. Our HTM-175™

Its superbly balanced cutting units can match the needs of your course with a smooth, exacting cut down to 3/8 of an inch.

Want to know more? Call your Toro distributor. He's a professional, too.



The Professionals

The Toro Company, 8111 Lyndale Ave. So.,
Minneapolis, MN 55420

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See us at the GCSAA Convention, Island 150



TWO GREAT GAMES ONE GREAT GRASS

Super Bowl XIV and the Rose Bowl classic were the great games. The turf? That was Derby Turf-type perennial ryegrass.

Derby was selected by George Toma, the man responsible for the Super Bowl XIV turf and Gus Huntly, turf manager for the Rose Bowl game, because of the special requirements for these special games.

Toma and Huntly wanted a fast-germinating, dark-green, handsome grass as well as one tough enough to take a pounding and still look great for the television cameras.

And Derby did it all. Of course, it will do more. It mows beautifully and thrives when cut at 1½ inches or at 3/16 inch on golf greens. In Southern areas it's a top choice for winter overseeding of golf greens.

Derby is also a great mixer, combining with the fine fescues and bluegrasses to form an outstanding turf.

HERE'S WHAT DERBY WILL DO

- *Persists in heavy, compacted, poorly drained areas where traffic is not intense*
 - *Tolerates a wide range of soil types from heavy clay to sandy*
 - *Retains its deep green color during chilly Southern winters*
 - *Germinates in less than a week under ideal conditions*
 - *Thrives when cut to 3/16, 1 inch or 1½ inches*
 - *Mixes nicely with fine fescues and bluegrass*

A Product of



INTERNATIONAL SEEDS, INC.

P.O. Box 168, Halsey, Oregon 97348

Telephone: (503) 369-2251 • TWX 510/590-0765

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"See us at the GCSAA Convention, Island no. 276"

Program: 52nd GCSAA Conference

GCSAA, Speakers and Topics SATURDAY AND SUNDAY

Nutrition Seminar

Instructors: Dr. Robert Shearman,
Dr. Thomas L. Watschke, and
Dr. James B. Beard

Meets 8 a.m. to 5 p.m. Saturday and
Sunday, Jan. 24 and 25.

Disease Seminar

Instructors: Dr. Houston B. Couch and
John F. Shoulders

Meets 8 a.m. to 5 p.m. Saturday and
Sunday, Jan. 24 and 25.

Insect Seminar

Instructors: Dr. Harry Niemczyk and
Dr. James A. Reinert

Meets 8 a.m. to 5 p.m. Saturday and
Sunday, Jan. 24 and 25.

Irrigation Seminar

Instructors: Bill Speelman and
David D. Davis

Meets 8 a.m. to 5 p.m., Saturday and
Sunday, Jan. 24 and 25.

Management Seminar

Instructor: Ronald C. Frame

Meets 8 a.m. to 5 p.m. Saturday and
Sunday, Jan. 24 and 25.

Cardiopulmonary Resuscitation Seminar

Instructor: Orange County Heart
Association

Meets 8 a.m. to 5 p.m.

Saturday, Jan. 24

or 8 a.m. to 5 p.m. Sunday, Jan. 25

Photography Seminar

Instructors: George S. Butt and
Gary Whelpley

Meets 8 a.m. to 5 p.m.

Saturday, Jan. 24, or 8 a.m. to 5 p.m.

Sunday, Jan. 25

MONDAY

Thinking Superintendent— Meeting the Challenge

Session Chairman:

James W. Timmerman, CGCS

1:30-1:45 p.m. Building a Solar
Greenhouse, Mark G. Fuller

1:45-2 p.m. Color on the Golf Course,
Ronald Pecoff

2-2:15 p.m. Heating Greens for Early
Spring Start, Sidney E. Puddicombe

2:15-2:30 p.m. Irrigation System
Maintenance, Dan Jones, CGCS

2:30-2:45 p.m. Recovering from
Hurricane Damage,

William M. Norris, Jr., CGCS

2:45-3 p.m. Fairway Renovation of
Cool Season Grasses, Gerald L. Faubel

3-3:15 p.m. Having a Purchasing
Agent, Thomas J. Burton

3:15-3:30 p.m. Golf Course Personnel
Management, Fred Reese

3:30-3:45 p.m. Employment
Opportunities and Your Personal
Goals, William L. Burdick

3:45-4 p.m. Certification—A
Controversy, A Viewpoint, A Tool,

Stephen K. Gipson, CGCS

4-4:10 p.m. Half Cut Greens, John
Souter

4:10-4:20 p.m. To be announced

TUESDAY

The Researcher's Challenge

Session Chairman: C. Richard Skogley

1-1:15 p.m. Ophiobolus Patch: An
Increasing Turf Disease Problem,
Noel Jackson

1:15-1:30 p.m. Use Patterns for
Systemic Fungicides in the Control
of Turfgrass Diseases,
Houston B. Couch

1:30-1:45 p.m. Water Conservation
Research with Turfgrasses,
William R. Kneebone

1:45-2 p.m. Coping With Turfgrass
Heat Stress, Robert Shearman

2-2:15 p.m. Root Die Back/Preliminary
Cultural Effects on Ball Roll,
James B. Beard

2:15-2:30 p.m. Impact of Volcanic Ash
on Turfgrasses in the Pacific
Northwest, Roy L. Goss

2:30-2:45 p.m. Comparisons of *Poa*
Supina, *Annua*, *Pratensis*,
William Daniel

2:45-3 p.m. Nitrogen Sources for Turf
Maintenance, Victor Gibeault

3-3:15 p.m. Frequent Sand Topdressing
Up-date, John H. Madisen

3:15-3:30 p.m. Wetting Agents—
What's the Difference?,
Paul E. Rieke

3:30-3:45 p.m. Nortron for *Poa Annua*
Control, Ray Dickens

3:45-4 p.m. Electrostatic Pesticide
Spraying of Turfgrass. S. Edward Law

Efficiency in Ornamental Pest Control

Session Chairman:

Donald J. Pakkala, CGCS

1-1:20 p.m. Northern Climate Insect
Control, David G. Nielsen

1:20-1:30 p.m. Question and Answer
Period

1:30-1:50 p.m. Southern Climate Insect
Control, James A. Reinert

1:50-2 p.m. Question and Answer Period

2-2:20 p.m. Northern Climate Weed
Control, Clayton M. Switzer

2:20-2:30 p.m. Question and Answer
Period

2:30-2:50 p.m. Southern Climate Weed
Control, Clyde Elmore

2:50-3 p.m. Question and Answer Period

3:30 p.m. General Disease Control,
Noel Jackson

3:30-3:45 p.m. Question and Answer
Period

3:45-4 p.m. General Question and
Answer Period

WEDNESDAY

Efficiency Through Planning

Session Chairman: James G. Prusa

9-9:30 a.m. Organizing Multiplex
Maintenance, Richard L. Lemmel

9:30-10 a.m. Pond Management,
Kent W. Kurtz

10-10:30 a.m. Water Wasted to Air,
M. Kate Williams

10:30-11 a.m. Let's Not Plant a Problem,
Douglas J. Chapman

11-11:30 a.m. Effective Report Writing
James W. Timmerman, CGCS

11:30 a.m.-12 Public Speaking,
H. A. Richardson

Efficient Management

Session Chairman: Tom Burrows

9-9:30 a.m. Pesticide Use From an
Historical Perspective,
William A. Harvey

9:30-10 a.m. Update on RPAR
Registration, Warner H. Anthony

10-10:30 a.m. Care of Reel Mowers,
Robert Krick

10:30-11 a.m. Hydraulics—A Power
Source, A Labor Saver,
Chuck Alsdurf

11 a.m.-12 Fitness for Busy People—
The Answer to Rising Medical
Costs, Ronald E. Useldinger

THURSDAY

Meeting Our Challenges in the '80s

USGA Green Section Educational Con-
ference

Session Chairmen: Stephen J. Horell and
Alexander M. Radko

9-9:15 a.m. Welcome and
Introductions, Stephen J. Horrell

9:15-9:40 a.m. Quality Playing
Conditions Every Day,
Robert V. Mitchell, CGCS

9:40-10 a.m. Efficient Use of Our
Natural Resources,
Melvin B. Lucas, Jr., CGCS

10-10:20 a.m. Designing Golf's
Challenges for Economy and
Maintenance, Richard M. Phelps

10:20-11:05 a.m. Quality Playing
Conditions and Priorities,
Edward C. Horton, CGCS

Quality Playing Conditions and
Budgeting, C. William Black, CGCS

Quality Playing Conditions and
Proper Equipment,
Richard H. Eichner, CGCS

11:05-11:45 a.m. Experience from the
Field and Quality Playing Conditions
North—Stanley Zontek

Southeast—James B. Moncrief

Southwest—Dr. Douglas T. Hawes

East—William G. Buchanan III

West—Don D. Hoos

11:45 a.m.-12 USGA Green Section
Award Presentation

2-2:30 p.m. A Breakthrough—New
Spray Techniques for the '80s,
Edward C. Law

2:30-2:45 p.m. GCSAA Citation of
Performance Presentation

2:45-3:05 p.m. Quality Playing
Conditions—The Chairman's
Challenge, George Thwing

3:05-3:30 p.m. The Challenges of
Industry Hills, William H. Bengeyfield

3:30-4 p.m. Conditioning the Golf
Course; Grooming the Putting Surface,
James T. Snow

Fertility—Low Levels of Nitrogen,
Tim Ansett

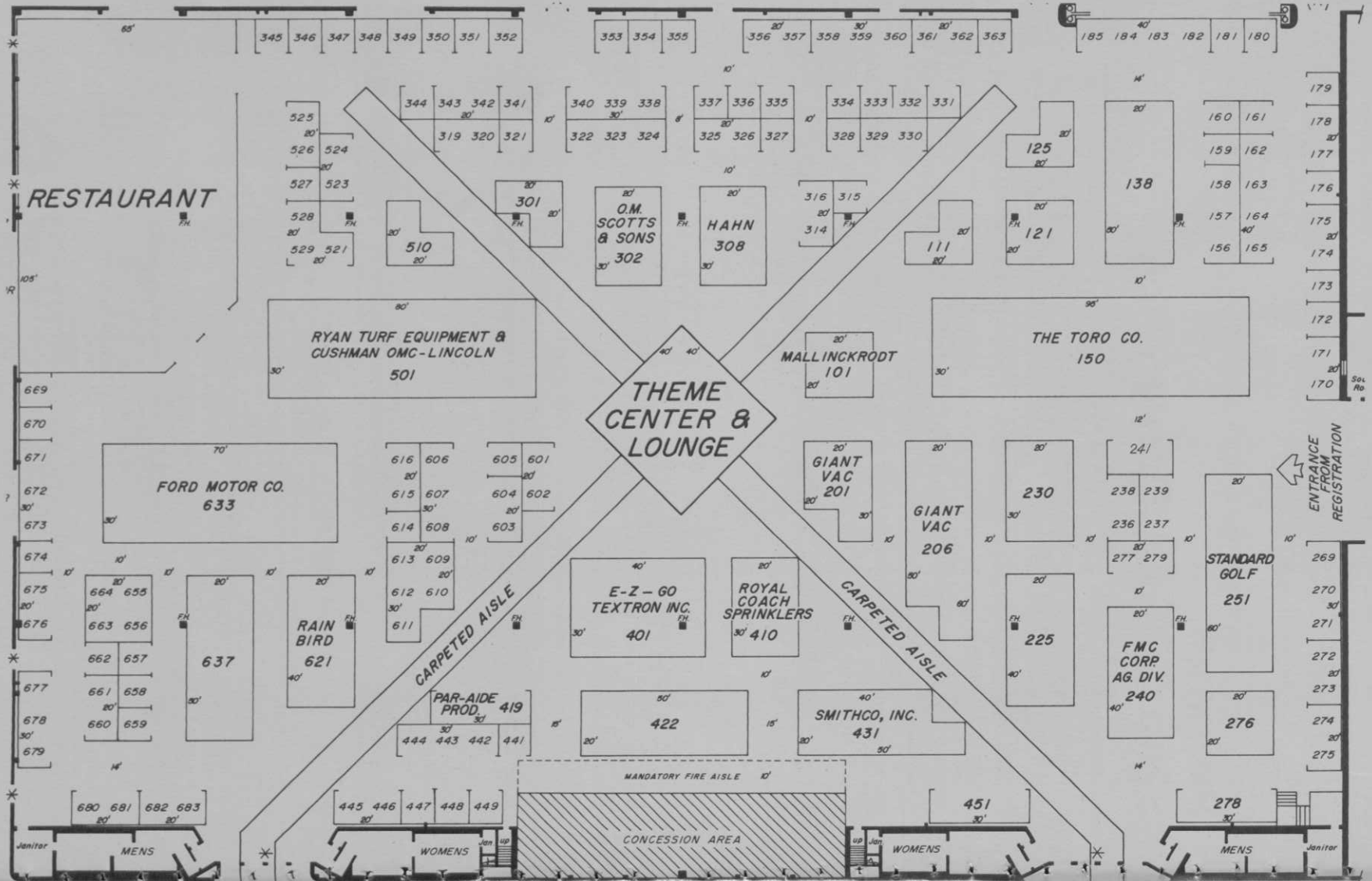
Little Things That Count,
William S. Brewer

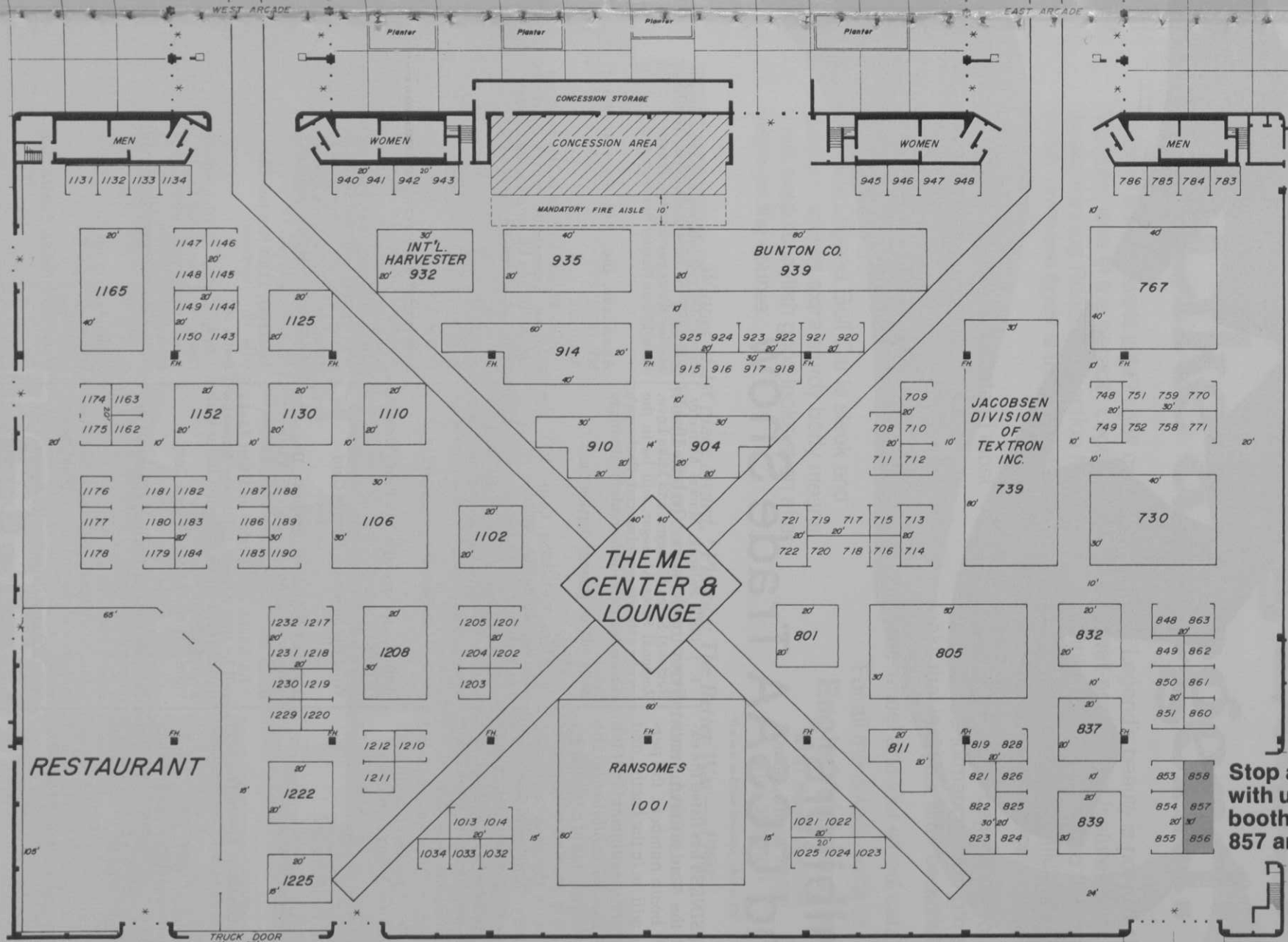
The Stimpmeter—A Management
Tool, Patrick M. O'Brien

Water Use and Energy Conservation,
Charles White

4 p.m. Question and Answer Period

Floor plan: 52nd GCSAA Trade Show





Stop and talk with us in booths 856, 857 and 858.

Anaheim Convention Center, Anaheim, California

Exhibitors: 52nd GCSAA Trade Show

GOLF BUSINESS has listed the exhibitors at the 52nd GCSAA Trade Show, their booth numbers, the personnel who will be in the booths, and the products and equipment that the companies will be exhibiting (to the best of our knowledge at press-time). A floor plan is located on pages 16 and 17. Because the show will cover approximately four and one-half acres this year, it is essential to plan your time and visits so that you see whom you want to see. By getting business out of the way first, there will be plenty of time to stroll and enjoy all the fine equipment and products that are being displayed.

A-1 Turf Irrigation Sales, Inc.

Booth 660, 661

Write 792 on Reader Service Card

AMF/Harley Davidson Motor Co., 3700 West Juneau Ave., Milwaukee, WI 53201
Island 230

Harley-Davidson will be exhibiting three- and four-wheel cars, gas and electric, including their Classic America limited edition model.

Personnel attending: Tom Duffey, Mgr./Prod. Mktg., Dick Gaedke, Gen. Sales Mgr.; George Hollander, Hugh Rawlings, Mike Stapleton, all district sales personnel, along with engineering and service staff.

Write 701 on Reader Service Card

Advanced Drainage Systems, Inc., 330 Riverside Dr., Columbus, OH 43221
Booth 160

F. J. (Bill) Palacek, Market Manager, Commercial Sales, Carl Hedlund, Regional Sales Manager, and Mike Love, Regional Sales Manager, will be in the booth exhibiting Advanced Drainage's corrugated polyethylene plastic drainage tubing.

Write 702 on Reader Service Card

American Pelletizing Corp., P.O. Box 3628, Des Moines, IA 50322
Booth 1220

Marv Zelibor will be in the booth exhibiting Reveille limestone pellets, gypsum pellets and dolomitic limestone pellets.

Write 294 on Reader Service Card

American Society of Golf Course Architects

Booth 1023

Write 793 on Reader Service Card

AMETEK/Plymouth Products Div., 502 Indiana Ave., Sheboygan, WI 53081
Booth 659

Ed Knauf, Bill Kreisa and Ken Lasky will be in the booth exhibiting Ametek's line of Turf Irrigation Control Boxes with Evergreen Covers.

Write 703 on Reader Service Card

Cal-Turf, AMFAC Garden, 2186 Knoll Dr., Ventura, CA 93006

Booths 1131-1132

Wm. Flannigan will be in the booths exhibiting stolons and stolon planting services.

Write 803 on Reader Service Card

The Andersons, P.O. Box 119, Maumee, OH 43537

Booths 177, 178

Bob Scobee, Doug Masters, Roger

Brown, Darrell Johnson and Mike Bryant will be in the booths exhibiting fertilizer and fertilizer pesticide products.

Write 295 on Reader Service Card

Aquashade, Inc., P.O. Box 198, Eldred, NY 12732

Booth 176

Billie Wilson will be in the booth exhibiting Aquashade which controls aquatic weeds by reducing light level.

Write 704 on Reader Service Card

Aquatrols Corp. of America, 142 Union Ave., Pennsauken, NY 08110

Booths 314, 316

Robert A Moore, President, Edward A. Oberright, Director of Research, Demie S. Moore, Director of Marketing and Sales, and Jerry Curtis, Southwestern and Western representative, will be in the booths exhibiting Aqua-GRO "L" and Aqua-GRO "S" wetting agents.

Write 705 on Reader Service Card

AquaTurf, 11363 San Jose Blvd., Jacksonville, FL

Booth 605

R. K. Curley, Charles Patrick, and W. Dawes will be in the booths exhibiting AquaTurf's programmable Pumping System with a "brain".

Write 706 on Reader Service Card

Ashland Chemical Co., P.O. Box 2219, Columbus, OH 43216

Booth 1212

Write 796 on Reader Service Card

Atwater Strong Co., 6284 Waterloo Rd., Atwater, OH 42201

Booths 269, 270, 271

Continues on page 23

Nothing Lasts Like a Legend.

Legend is the newest idea in golf cars. The best idea of the decade. Legend's award-winning Reaction Injection Molded (RIM) Urethane body is the toughest on the market.

So strong, it's able to withstand most impact without damage. So tough, it resists nicks and scrapes. So durable, it won't rust or corrode. And only Legend has it.

The new Legend Golf Car is sleek and sporty — and its extra-sturdy body means it will keep its stylish good looks even after years on the course.

But, Legend's beauty is not just skin deep. Its well-engineered features and quality components are designed to keep Legend running smoothly and efficiently — with a minimum of maintenance.

Put the tough new Legend on your course today, for performance, strength and good looks that last year after beautiful year.

Three-wheel and four-wheel cars available.

For all the details, write or call:

Eagle Vehicles, Inc.

8181 Hoyle Avenue
Dallas, Texas 75227
(214) 388-7431

"See us at the GCSAA Convention, Island no. 839"

*Winner of 1st place award, "Plastics: The Better Way — 1980"
Plastics World design competition, recreational division.*



LEGEND

GOLF CARS

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CHIPCO



**LONG-LASTING
CHIPCO® 26019 IS
STRONG MEDICINE.** If you're serious about protecting your turf against diseases, give it your best shot. Spray Chipco 26019 fungicide. Thousands of superintendents have switched to Chipco 26019 in the past two years. And no wonder: Chipco 26019 gives you the longest residual. You can cut the number of sprays in your program, and that cuts your costs. And Chipco 26019 prevents the major turf diseases with unsurpassed effectiveness. You'll get good results with Chipco