

WATER'S COMPLEX ENVIRONMENT (from page 40)

improves fish growth rates — increases in production and catch per unit effort are evidence of improvement in the sport fishery.

There are those who look critically at technological innovations — oppressed by fear of deterioration of the environment. They are somewhat justified by numerous examples, even though many are exceptions to general rule. In the meantime, the air becomes polluted with the exchange of emotional charges followed by the frustrations, dependency or apathy of the public or officials to find solutions to the "problems."

They seriously question man's responsible relation with the native flora and wildlife of this earth . . . and logically question if these are the same people who plunder for sake of profit and deny these forms of life a share of the environment based solely on materialistic cost-benefit ratios. These repeated cries of alarm about our environmental crisis are similar to the Aesop Fable of the boy who cried wolf — unfortunately, well-meaning scientists also sound alarms, and often about matters far removed from their own

special area of competence.

Is it any wonder that the public becomes disillusioned with science and scientists — and then suspicious of our technological improvements? We have enough anti-intellectualism without precipitating such a dominant force that may well result when we allow spirited scientific debate to escape these halls to the public arena. Our understanding is

based upon respect for different viewpoints but with critical evaluation subjected by the multidisciplinary scientific community. The work and opinions of some colleagues have been exploited and eventually become subjected to the "headline hunting."

Thus, we cannot afford to ignore the special responsibility of the scientific community to both consider the "good" and the "adverse" effects of chemicals as contaminants.

Preview

For

August

Shade

Tree

Spectacular



INSTANT READINGS OF SUB-SOIL MOISTURE

AQUA PROBE

■ Just push into soil and 0-100% available soil moisture is registered instantly on dial.

■ Adjustment control for all soil types.

■ Portable - Compact

Allows more precise scheduling of water for optimum growth with less wasted water. Checks moisture penetration to determine effectiveness of sprinkling system or rainfall. Standard unit tests to 12" depth, longer probes available. \$26.50 comp ppd. or write:



PRODUCTS & DESIGN
6805 Boysenberry Way, Colo. Springs, CO 80907

Dept. 120

For More Details Circle (104) on Reply Card

THE COMPLETE HARVESTER, and CUTTER



ROLL AFTER ROLL, SLAB AFTER SLAB, DAY AFTER DAY

The Nunes Mechanical Sod Harvester and 3 men can cut, lift, roll or slab and palletize up to 1000 sq. yds. of sod per hour. Field conditions, terrain, soil, sod, are

easily and quickly adjusted for, while in operation, with hydraulic controls.

Write for detailed brochure.

Will Fold or Roll Sod

Machine Guaranteed to Work Anywhere Cultivated Sod Is Grown

THE JOHN NUNES MECHANICAL HARVESTING CO.

2006 Loquat Ave., Patterson, California 95363, Phone (209) 892-8776

NUNES
SOD HARVESTER

For More Details Circle (137) on Reply Card

Aquatic Weed Harvester Invented by Floridian

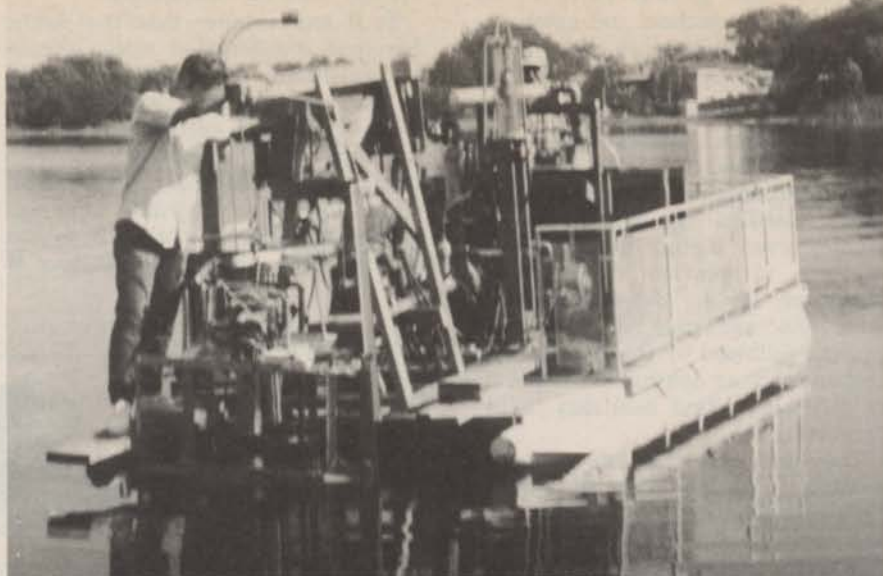
Lake and waterway reclamation from aquatic plants is a never ending source of concern. Lack of adequate equipment constitutes one of the main reasons why progress has been slow.

Now someone is doing something about it. He is Merle P. Chaplin of Winter Park, Fla. who has spent the last few years engineering and inventing mechanical lakeweed removal equipment.

Chaplin has built a number of experimental harvesters and developed a plan of restoration.

While some view Chaplin's drawings and prototypes as a Jules Verne classic, others extol the benefits of their innovator's knowledge. Researchers have long recognized that finding useful products made from aquatic plants would greatly stimulate efforts to bring like weed problems under control.

Essentially, Chaplin has combined a rotary cutter, suction pump, compressing chamber, baler and other equipment into an efficient harvesting machine. He and Dorman Myers of Apopka, who joined Chaplin in



Aquatic weed harvester designed and built by Merle P. Chaplin. The self-contained unit is capable of deep water weed removal. Vegetation is placed in baskets, sterilized and baled.

1969 and invented one of the harvesters, are convinced that they now have the equipment needed to control hydrilla and other aquatic weeds in Florida.

The various harvesters are de-

signed for deep water use. They can be raised to pass obstructions and for travel or lowered for operations on the bottom of a lake.

For more details, circle (720) on the reply card.



BECK'S BIG ROLL SOD HARVESTING AND LAYING SYSTEM . . . For Progressive Sod Growers



Harvest, load, and lay sod FAST, without manual lifting or handling. Let tractors do the hard work. Hand stacking and laying of sod is obsolete. Increases sales by cutting time and cost of installation. Stretches sod 3% to 5%, leaves lawns smoother, with fewer seams and joints. Disposable cardboard tubes are lighter and cheaper than pallets, permit easy loading, as many as 3 rolls at a time, with any fork lift, laying with any tractor.

No need to change over completely. Switch from Big Rolls to your present system in 5 minutes or less. This simple, rugged system can be had for as little as \$100/month.

For more information, write:
BECK MANUFACTURING COMPANY
P. O. Box 752 • Auburn, Alabama 36830

BECK
MANUFACTURING CO.

— classifieds —

When answering ads where box number only is given, please address as follows: Box number, c/o Weeds Trees and Turf, 9800 Detroit Ave., Cleveland, Ohio 44102.

Rates: "Position Wanted" 10¢ per word, minimum \$3.00. All other classifications 20¢ per word, minimum \$4.00. All classified ads must be received by Publisher the 10th of the month preceding publication date and be accompanied by cash or money order covering full payment. Bold-face rule box: \$25.00 per column inch.

SEEDS

LAWN GRASS SEED — Full line including sod-quality Merion, Fylking, bluegrasses, fescues, bentgrasses, ryegrasses, etc.

We specialize in custom mixing.

OLIGER SEED COMPANY
P.O. Box 3765, Akron, Ohio 44314
Phone 216/753-2259

SOD QUALITY MERION SEED for discriminating growers. Also Fylking, Delta, Park, Newport, Nugget and Pennstar bluegrasses as well as fine fescues. We will custom mix to your specifications. Michigan State Seed Company, Grand Ledge, Michigan 48837. Phone 517 627-2164.

EDUCATION-BOOKS

LEARN AUTOMATIC IRRIGATION. Easy to follow text and diagrams on latest valves, heads, controllers. System design, operation and trouble shooting. Write for free outline on this ten lesson low cost course. Larson Company, P.O. Box 4453, Santa Barbara, Calif. 93103.

MISCELLANEOUS

TREE APPRAISALS, SURVEYS, loss evaluations and expert consultation services. For names of members of the American Society of Consulting Arborists, Inc., throughout the country, contact: Executive Director ASCA, 12 Lakeview Ave., Milltown, New Jersey 08850.

HELP WANTED

EXPERIENCED TURF FARMERS— Rapidly expanding Colorado turf farm seeks one each: Cutting foreman, Installation foreman, Irrigation man. Outstanding future with growing corporation. Excellent salary, hospitalization, insurance and other benefits. Apply giving experience and past work history to: Personnel Mgr., Reynolds Turf Farms, Inc., P.O. Box 595, Brighton, Colorado 80601.

Creative Landscape Architect

We represent a large Atlanta, Georgia based real estate development company. Our client currently seeks a landscape professional with a thorough knowledge of creative gardening and landscape planning in the Atlanta climate environment. The individual selected will be responsible for the planting and maintenance program for large commercial, industrial, and residential developments. He will further supervise the activities of two nursery farms. 2-5 years experience with a degree in environmental design, horticulture, or appropriate field experience are necessary.

Compensation to \$20,000 to start.

Contact in confidence Mr. C. E. Howe:
ROBERT HOWE & ASSOCIATES
2220 Parklake Dr., N.E., Suite 440
Atlanta, Georgia 30345
(404) 939-9273

USED EQUIPMENT

RECONDITIONED brush chippers, sprayers, log splitters, stump routers, bucket trucks. Let us know your needs. Equipment Sales Company, 5620 Old Sunrise Highway, Massapequa, New York 11758. Phone 516 799-7619.

FOR SALE—Ryan sod harvester, 18 in., one year old, mounted on Ferguson 35 tractor, can see this cutter in operation at sod farm. Total price \$6700.00. Gettemyer Sod Farm, R2, St. Peters, Missouri 63376. Phone 314 278-3388.

IRRIGATION PUMP. Hale 6" pump powered by Chrysler industrial engine with aluminum suction pipe with strainer, good condition. Steve Antonoff, Jr., 1697 Western Reserve Rd., Poland, Ohio 44514. Phone 216 758-1801.

FOR SALE. 1964 Hahn Hi-Boy with 200 gallon steel tank, drop spray nozzles, new boom and new pump. V-4 Wisconsin air-cooled motor with transport trailer. Call Western Fertilizer, Burlington, Colorado 80807. Phone 303 346-7209.

WANTED: Used Vermeer tree spade. Preferably from Midwestern States. Please give complete information in first letter. Linn Farms, Inc., Box 539, Canton, Ill. 61520. Phone 309 647-0148.

FOR SALE

DOUBLE EDGE sod cutter blades. Will fit any Ryan sod cutter. Works like double edge razor blade. Cuts much more sod per blade. Made to bolt on both ways. \$24.00 plus postage. New automatic sod loaders for direct loading to pallets, trucks or trailers. No workers needed on ground. Both products developed and designed by Hadfield. Write or call Glen Hadfield, 4643 Sherwood, Oxford, Michigan 48051. Phone 313 628-2000.

POSITIONS WANTED

LANDSCAPE NURSERYMAN— Married, age 33, 8 years experience. Wishes to relocate in the midwest. Highly qualified in all phases of high quality landscaping including maintenance, turf management, pesticide application, growing of plant material, and sales. Desires position as park superintendent, grounds foreman or working partner in landscape nursery. Presently owner/operator of own business. Excellent references. Box 86, Weeds Trees and Turf, 9800 Detroit Ave., Cleveland, Ohio 44102.

—Advertisers Index—

Adelphi Kentucky Bluegrass	48
Adventure Line Mfg. Co.	38
Agric. Alumni Seed Assn.	25
Air-Lec Industries, Inc.	31
American Excelsior Co.	36
Applied Biochemists, Inc.	22
Asplundh Chipper Co.	11
Beck Mfg. Co.	52
Bowie Industries, Ind.	34
Brillion Iron Works, Inc.	47
Brouwer Mfg.	46
CLM National, Inc.	3
Diamond Shamrock Chemical Co.	5
Dow Chemical Co.	9, 50
E. I. duPont de Nemours & Co., Inc.	2nd cover, 49
Elanco Products	28-29
Flymo Div., Keltec, Inc.	19
Ford Tractor & Implement Operations	7
Hays Mfg. Company	3rd cover
Jacklin Seed Co., Inc.	6
JLM Products & Design	51
Lofts Chandlerlin Seed Co.	4th cover
J. J. Mauget Co.	8
3M Company	33
Magline, Inc. Trailervator Div.	37
Merck, Chemical Div.	21
Mobile Aerial Towers, Inc.	37
John Nunes Mechanical Harvester	51
Pennstar Kentucky Bluegrass	42-43
Pennwalt Chemicals Corp.	40
Rain Bird Sprinkler Mfg. Corp.	17
Roof Mfg. Co.	32
Scott Young Co.	35
Servis Equipment Co.	23
Shell Chemical Co.	15
Skyworker Corp.	31
Vermeer Mfg. Co.	45
Village Blacksmith	39



"Down south their snow is green and they cut it with a funny put-put machine every week or so."

— trimmings —

TRY BEER to rid slug problems, if you don't want to use pesticides. The only equipment you need is a flat pan and a goodly supply of the malt brew. Pour the beer in the pan. At night the slugs will venture out, head for the pan and try a few sips. Once they sample the brew they can't seem to struggle (or stagger) back out of the pan. The more stale the beer, the more the slugs seem to enjoy it.

SIBERIAN ELMS are being hit by a canker which so far has no cure. These trees are fast growing and are often found in shelterbelts and urban areas. The disease is not associated with Dutch Elm Disease. Dr. Jack D. Otta, South Dakota State University, says that there is no known cure for the disease. Developing a tree resistant to the disease appears to be the only solution as of now—and that is a long and difficult process.

FUMIGATION BY FOAM permits the use of 25 percent less chemical, reduces the possibility of pollution and saves labor. H. J. Braud of Louisiana State University mixed methyl bromide with foam, applied a four inch layer broadcast and saved \$75 per acre. He believes the total cost can be cut even further—perhaps in half. The foam last about three hours. The insulation traps solar heat and surface temperature under the foam climbs as high as 125 degrees F. This kills young weeds as well as nematodes.

WORLD'S LARGEST CARPET is at present spread over a sports ground in the southern sector of Vienna. Developed by the firm Bunzl & Biach in conjunction with landscape architects, it consists of rotproof synthetic material containing an appropriate distribution of grass seed. When exposed to sun and rain, the seed germinates and within a month or two forms a durable turf.

THE POPULATION EXPLOSION of flies can leave rabbits sitting on their cottontails. Progeny from a pair of flies mated in April, if all lived, would result in 191,010,000,000,000,000,000 (191 quintillion, 10 quadrillion) flies by August. If you figure one-eighth of a cubic inch per fly, this number would cover the earth 47 feet deep.

FORAM CHEMICAL COMPANY is marketing a new foam adjuvant

known as Chemfoam. A marketing team of specialists consisting of Byron C. Stark, Tom G. Dunn and Howard Rampy, Jr., are promoting foam as a means by which the applicator can substantially reduce drift and its damage. All were formerly with another Texas based firm. Rampy says that the company is service and technically oriented to market this new spraying concept.

WATER CONSUMED BY BRUSH and weeds is nearly 20 times as much water as all of the cities, industries and irrigation farmers in Texas use, according to J. Phil Campbell, Under Secretary of Agriculture, who spoke before a Texas audience. Excessive brush is a problem to all Texas water users. A 1964 survey showed that 88 million acres, or 82 percent of Texas grasslands, were infested with brush which was using an estimated 138 million acre-feet of water annually.

GYPSY MOTH STRIKES AGAIN. That's the word from Missouri where caterpillars and egg masses of gypsy moth were found for the first time at a mobile home park near Fayette. Officials said that the months were carried into the state on a mobile home from Connecticut. An emergency treatment program to prevent an infestation is underway.

GOLF COURSE DESIGN BROCHURE is a 20 page booklet prepared by Packard Inc., La Grange, Ill. for real estate groups and land

developers concerned with proper design and construction of quality golf courses. It discusses how proper hazard placement, green construction and traffic patterns add to golfers' maximum enjoyment and challenge. Packard shows how each hole should challenge the best players, yet not frustrate or penalize average golfers.

Algimycin PLL-C Algaecide Registered By EPA

A new algaecide that remains soluble over a wide pH range at use levels and will attack and destroy most of the strains of algae commonly found in lakes has been registered by the Environmental Protection Agency.

The new product is Algimycin PLL-C and is being introduced by Great Lakes Biochemical Co., Inc. of Milwaukee, Wisc. When used at recommended rates, it is not toxic to most common fresh water and tropical fish, desirable aquatic plants, animals, birds or pets.

Treated water may be used immediately for watering crops.

Algimycin PLL-C can be sprayed on the surface of the water with most spraying equipment, or injected on the bottom of the body of water being treated. It is most effective when applied directly to the algae growth.

The manufacturer cautions that bodies of water with heavy algae infestations should be treated in sections.

COW MANURE vs. MILK

In spite of the spiraling cost of food and vegetables, milk continues to be an economical source of energy and vitamins, says the American Dairy Association. As an example, the average consumer in the state of Pennsylvania pays about 16 cents a pound for cow's milk in an average supermarket. Consumers in other states have bought milk for as low as 9½ cents a pound. In contrast to this, tomatoes in April cost 59 cents a pound and a 15 ounce can of peaches cost 35 cents.

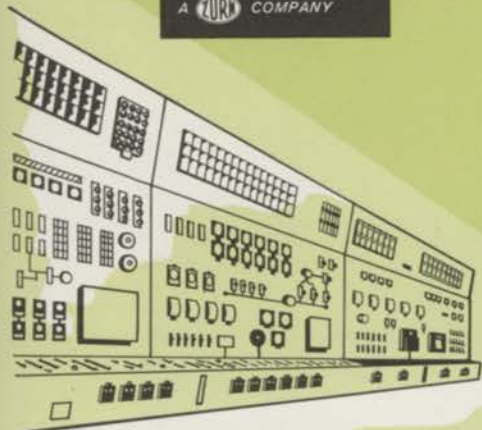
While all this leaves the dairy farmer wringing his hands to pay bills, other enterprising farm managers are finding a way to make greater returns from Bossy. They've found that manure from the old girl has a greater use than the familiar agricultural shoe polish. Cow manure can be sold at a profit. And guess what? Going price in the Harrisburg area for dried cow manure in five pound bags is 19.8 cents a pound, or 3.8 cents more per pound than fresh, wholesome milk in area supermarkets.

Kind of makes us wonder if the farmer has had his hands on the wrong set of equipment all this time. The tail end appears to be the most profitable end—for the Green Industry.



Select-O-Rain

THE TOTALLY UNIQUE 12 ZONE
TURF-WATERING AUTOMATIC
CONTROLLER WITH PATENTED
DRUM PROGRAMMER



BORN IN INDUSTRIAL AUTOMATION . . .
SPECIALLY ADAPTED TO AUTOMATIC TURF
WATERING AND IRRIGATION REQUIREMENTS



FOR THOSE APPLICATIONS
DEMANDING THE VERY
BEST IN RELIABILITY
AND FLEXIBILITY

Select-O-Rain was developed for and has been proven in precise machine tool control, instrumentation and process control applications . . . and now, Hays has adapted this unique Controller for your turf-watering needs.

Its built-in components measure up to the rigid standards of performance required in industry. With Select-O-Rain ANY ZONE CAN BE PROGRAMMED FOR ANY LENGTH OF TIME, AT ANY TIME, INDEPENDENTLY OF ANY OTHER ZONE.

Its accuracy is assured by its design. Each watering cycle will repeat itself exactly as programmed regardless of how many times the program is repeated.

Select-O-Rain features a 120 volt pump circuit and 24 volt master valve circuit in one unit.

Only Select-O-Rain can offer 'industrial automation' reliability and flexibility in your commercial or residential turf-watering program. It will work . . . and that's a promise.

Write for brochure No. 2800-0012 for complete details.



P.S. Ask about our sensational solenoid valves and our unique line of sprinklers.

HAYS MFG. DIV.

AUTOMATIC CONTROLS

12th at Plum St. • Erie, Pa. U.S.A. 16512

A DIVISION OF ZURN INDUSTRIES, INC.