

James B. Beard

# Northwest TURFGRASS TOPICS

Vol 17 — No. 2

PUYALLUP, WASHINGTON

SEPT. 1974

## The President's Corner



## From the President's Corner

By Milt Bauman



## Last Call for Northwest Turfgrass Conference

Those of you who have not made your reservations for the Conference at Sun River should do so at once. Sun River has 134 deluxe bedroom units, each having its own natural stone fireplace, color TV, telephone, full bath, outdoor patio deck and complete furnishings at the rate of \$15.00 for one person or \$22.00 for double occupancy. There are also condominium suites available with as many as two or three bedrooms in each condominium. These can be shared by three couples if you wish at reasonable rates. Information regarding reservations should be sent to Sun River Lodge, Sun River, Oregon 97701, or telephone area code 503-593-1221. Be sure to tell them you are participating in the Northwest Turfgrass Conference to obtain the special Conference rate.

As you can see from the Conference program in this issue, we have a most variable program and some interesting topics for everyone in the turfgrass business.

Sun River boasts a beautiful climate, particularly for the end of September, with nearly a hundred percent guarantee of no rain and with beautiful weather. Plan on attending and updating yourself on methods to help improve turfgrass quality and management conditions as well as an opportunity to visit with fellow turf workers, commercial representatives, and research workers.

Y'all come now, heah!

## New Research Planned For Early Fall of 1974

By Roy L. Goss

Experiments will be initiated at Spokane, Washington, at the Spokane Golf and Country Club, in cooperation with Norris Beardsley, golf course superintendent, and at the Western Washington Research and Extension Center at Puyallup, to determine the effects of sources, rates and timing of nitrogen on the development of *Typhula* snowmold in the eastern area and *Fusarium nivale* west of the Cascade Mountains. These tests are cooperative efforts between C. J. Gould, R. L. Goss and S. E. Brauen and A. G. Law at Spokane.

The third new test will be an intensive investigation of new materials for both pre- and post-emergent control of *Poa annua* to be initiated at the Research and Extension Center at Puyallup. Several new formulations of chemicals have been developed by chemical companies and will be tested in addition to a few of the older materials that have shown promise in the past, particularly by manipulating either rates or timing of applications. This test is designed to run

Our Executive Secretary, Dr. Roy Goss, and Program Chairman, Dick Flutter, have an excellent program lined up for our Turfgrass Conference the last week in September at Sun River. If you don't have your reservations in, you had better get with it. I understand Sun River is about 15 miles from Bend, Oregon. After the accommodations are full at Sun River, it will mean that some will have to commute to attend the Conference.

The Board of Directors of Northwest Turfgrass Association have been working with the Oregon Superintendent's Association, the Inland Empire Superintendent's Association and the Northwest Golf Course Superintendent's Association gathering material and writing letters to G.C.S.A.A. to recommend Dr. Roy Goss for their "Distinguished Service Award" for contributions to the Golf Course Superintendent. The Boards of the three Superintendent's Association and the Board of the Northwest Turfgrass Association all voted unanimously to recommend Dr. Goss, for this award. We feel that there is no one more qualified and deserving than Dr. Goss.

Be sure to arrive at Sun River in time to enter the Golf Tourney on Tuesday afternoon. We will see you at Sun River.

Continued on Page 3

# Northwest Turfgrass Conference Program

Sun River, Oregon  
September 25, 26, 27, 1974

Tuesday, Sept. 24

Conference participants arrive and Golf Tournament for all interested.

Wednesday, Sept. 25

8:30-noon Registration

1:15 Welcome, President, Northwest Turfgrass Association and other.

1:30- 2:15 "A New Concept in Topdressing Putting Greens", John Madison, University of California, Davis.

2:15- 2:50 "The Use of Sand Playfields in Parks and Recreation Areas", Irv Rodley, Seattle Park Department, Seattle, Wa.

2:50- 3:20 "New Turfgrass Varieties and Seed Forecast", Bob Peterson, Burlingham Seed Company, Forest Grove, Or.

3:20- 3:40 Break

3:40- 4:15 "Parks Have Turf Problems, Too", Sam Angove, Spokane County Park Superintendent, Spokane, Wa.

4:15 Questions and Answers for the afternoon session.

7:00 Conference Banquet

Thursday Morning, Sept. 26

8:30- 9:30 "Drainage Problems in Turfgrass Areas— Cause and Correction", Roy Brooks, Oregon State University, Milt Bauman, Seattle Golf and Country Club, Dick Malpass, Riverside Golf and Country Club

9:30-10:10 "Useful Field Methods for Diagnosing Turfgrass Problems", William H. Benguefield, Western Director, USGA, Green Section, Garden Grove, Ca.

10:10-10:30 Break

10:30-11:05 "Occupational Safety and Health Act and The Turfgrass Industry", Jack Jones, OSHA Office, Seattle, Wa.

11:05-11:30 "Trends and New Ideas in the Golf Business", Joe Much and Jerry Claussen, National Golf Foundation, Monmouth, Ore., and Denver, Col.

11:30-12:00 Northwest Turfgrass Association Annual Membership Meeting.

Thursday Afternoon, Sept. 26

1:15- 1:35 "A Pre-emergence Control Program for *Poa annua*", Roy L. Goss, Washington State University, Puyallup, Wa.

1:35- 3:00 "The Making of Beautiful Golf Courses", Ronald Fream, Fream, Storm and Associates, Golf Course Architect, Los Gatos, Ca.

3:00 Free time for meetings, conferences or recreation.

Friday Morning, Sept. 27

8:30- 9:00 "Typhula Snow Mold Control in the Pacific Northwest", Charles J. Gould, Washington State University, Puyallup, Wa.

# Turfgrass Field Days

By Roy L. Goss

Three consecutive turfgrass field days were held in May, 1974, at the Western Washington Research and Extension Center at Puyallup. The first day was devoted to problems experienced by golf course superintendents and golf course management. All golf superintendents and allied industry were invited to this field day and were encouraged to bring club personnel including golf professionals, club manager, chairman of green committee and club president. About 75 people turned out for this field day and felt that it was most beneficial since the time would be devoted specifically to problems of their interests.

Dr. S. E. Brauen, Charles J. Gould and Roy L. Goss were on hand to discuss current research and future planned research to these groups. Dr. Roy Davidson, Plant Pathologist, was also on hand to discuss diagnostic techniques for plant problems.

The tour included 157 bentgrass varieties under investigation for resistance to *Fusarium nivale* and also agronomic characteristics for adaptation to putting green management, putting green nutritional experiments with emphasis on sulfur, phosphorus and nitrogen, bluegrass, fescue and ryegrass variety trials, *Poa annua* Pre- and Post-emergence Control Tests, and an accelerated topdressing program.

Although the weather did not cooperate very well, we were still able to see most of the research in between heavy rain showers. At one time, rain and hail was so intense that the audience could not hear the speaker above the roar on the tin roof.

The second field day was devoted specifically to County Extension Agents and State and Federal workers to update them on new methods and techniques.

The third field day was devoted to the general public so that they could see the entire research program and ask specific questions regarding cultural techniques. Altogether, there were about 350 people who attended these field days.

These same three field days will be conducted again in May, 1975, and you can mark the dates on your calendar, May 13 for golf course personnel and allied industry, May 14 for County Extension Agents and State and Federal workers, and May 15 for general public. This time we should escape the rain, although the field days will go regardless of the weather.

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9:00-10:00 Research Reports  
10:00-10:20 Break  
10:20-Noon Research Reports continued  
Contributors: A. G. Law, Ron Ensign, Charles J. Gould, Stanton E. Brauen, Doug Taylor, Roy L. Goss, Others.  
12:00 noon Conference Adjournment

# Research Program Financing

By Allen C. Blair

As all of you know, a tremendous amount of effort has been expended by a lot of people in the turfgrass industry in the Pacific Northwest and Washington State University to find ways of obtaining funds to increase or speed up the turfgrass research program to solve pressing problems for the turfgrass managers in our region. The Board of Directors of the Northwest Turfgrass Association, the Pacific Northwest Golf Course Professionals and Golf Course Superintendents are attempting to accomplish this goal from contributions from the total turfgrass industry. It is felt by this group that contributions in the following amounts will not create a large financial burden on any one individual or organization:

18-hole golf courses	\$200.00
9-hole golf courses	\$100.00
Industry	\$200.00 to \$300.00 or more
Others	Any amount they wish to contribute

We have a large turfgrass industry in Washington, Oregon and Idaho, and if everyone cooperates just a little, there should be no problem in collecting sufficient money annually to pay the salary and overhead of a research associate to work with Drs. Goss, Gould and Brauen at the Research Station at Puyallup.

So far, contributions from Washington golf courses have come in rather slowly, but it is hoped that all of you will move ahead quickly and get your contributions in. Industry has been particularly slow, but perhaps they have not had sufficient contact in this regard.

Anyone making contributions to this program can do so as tax free donations since the Northwest Turfgrass Association is exempt from Federal Income Tax. Anyone, including private individuals, who wish to donate to this program should send their checks to the Northwest Turfgrass Association Research Fund in care of Allen C. Blair, Puget Sound Seed Company, 1050 West Nickerson, Seattle, Wa. 98119.

Contributors to this program to date include the following:

## 1972

Corvallis Country Club, Oakbrook Golf Club, Sahalee Golf Club, Highland Golf Club, Northwest Golf Course Supt. Ass'n., Inland Empire Golf Course, Northwest Turfgrass Ass'n.

## 1973

Emerald Turfgrass Farms, B. G. & P. Inc., Carl Kuhn, Wash.—North Idaho Seed Ass'n., Northwest Golf Course Supt. Ass'n., Spokane Country Club, Turf & Toro—Seattle, Puget Sound Seed Co., Northwest Mowers, Inc., Oregon Golf Course Supt. Ass'n., Inland Empire Golf Course Supt. Ass'n., International Pesticide Applicators, International N.E.M. Co., Chronicle Inland Empire Pro-Am, Northwest Turfgrass Association, Loft Pedigreed Seed, Don Hogan, Inland Toro Distributors.

## 1974

Oregon Seed Trade Ass'n., Don Hogan, Hercules, Inc., Sahalee, Turf & Toro Dist. Inc.—Seattle, Manhattan Ryegrass Ass'n., Penncross Bentgrass Ass'n., Inland Empire Golf Course Supt. Ass'n., Pickseed West, Northwest Turfgrass Association, Ken Tyson, Seattle Golf Course, Inland Toro Distributors, Semilk Beach Golf Course—Earl Morgan, Carl H. Kuhn & Associates, Sun River Properties, Willamette Valley Country Club, Agate Beach Golf Course,

Continued from Page 1, Column 2

approximately three years to determine the effects on *Poa annua*, bentgrass and the effect on turf density, quality and rooting characteristics.

Studies will be continued on chemical control for Fusarium patch beginning the first part of September, 1974. Anyone having grass clippings from Fusarium infected putting greens are invited to contribute these clippings to Chuck Gould to scatter over the fungicide plots to increase chances for infection from *Fusarium nivale*.

Fall and winter observations will be made on bluegrass, fescue and bentgrass variety plots both at Puyallup and at Hangman Valley Golf Course in Spokane. This winter should give us a lot of information on how well these grasses hold up to both disease and weather conditions at all locations. Advanced management studies have been initiated on the most promising bentgrasses which have been established about one year at this time here at Puyallup. These grasses should be exhibiting excellent characteristics by May at Field Day time of 1975.

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Oregon Golf Course Supt. Ass'n., Northwest Golf Course Supt. Ass'n., Chronicle Inland Empire Pro-Am, Emerald Turfgrass Farms

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common bluegrasses (right), mowed about one inch.

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# What to Expect at Sunriver

## Sunriver Lodge Convention Party Service

### Cocktail Parties (Minimum \$100.00)

- I. Host or No-Host
  - Bar brand drinks ..... \$1.10/drink
  - Call brand drinks ..... 1.40/drink
  - Champagne punch ..... 2.00/person

### Hors D'Euvs (Minimum \$25.00)

- I. Cold
  - Party snacks (chips/dips/nuts) ..... 1.00/person
  - Assorted relishes, cheeses, crackers .... 1.00/person
  - assorted finger sandwiches/canapes .... 2.25/dozen
- II. Hot Chicken livers wrapped in bacon .. 2.50/dozen
- Pai Kai ..... 2.50/dozen
- Cocktail seafood, franks ..... 2.50/dozen
- III. Gourmet Preparations..... Prices Upon Request  
*\$5.00 service charge for room delivery*  
*No charge for service in Lodge*  
*Prices subject to change, with notice*

### Sunriver Lodge Banquet Menu Breakfast or Brunch

- Continental: Juice—Danish Pastry—Beverage ..... \$1.50
- Coffee Breaks: Danish Pastry ..... \$.50 .. \$.30
- Buffet: Minimum 75 people ..... \$2.50  
 Assorted juices, scrambled eggs, ham or  
 bacon, assorted sweet rolls, beverage  
*10% gratuity will be added for buffet service.*

#### Individual Table Service:

- I. Juice, Scrambled Eggs, Biscuits, Jam, Beverage \$2.00
- II. Juice, Scrambled Eggs, Bacon or Sausage, Biscuits,  
 Jam, Beverage ..... 3.00
- III. Ham Steak, Scrambled Eggs, Biscuits, Jam,  
 Beverage ..... 3.75
- IV. Breast of Turkey Marco Polo, Garden Salad,  
 Beverage, Dessert ..... 4.25
- V. Gourmet Breakfast Preparations Prices Upon Re-  
 quest

*15% gratuity will be added to meal ticket for table service*  
*Prices subject to change, with notice*  
*Minimum guarantee required for each meal*

### Lunch

- Buffet: Minimum 75 people ..... \$3.25  
 Assorted cold cut meats, cheese platter, 3-bean salad,  
 potato salad, molded jello salad, tossed green salad  
 with special house dressing, assorted breads, beverage
- Outdoor Barbeque: Minimum 50 people ..... 2.00  
 (Weather permitting)  
 Barbequed hamburger, assorted relishes, potato chips,  
 potato salad, soft drink or coffee

*10% gratuity will be added for buffet & barbeque service.*

#### Individual Table Service:

- I. Braised Swiss Steak ..... 3.25
- II. Breast of Chicken ..... 3.50
- III. Breaded Veal Cutlet ..... 3.50
- IV. Pot Roast of Beef ..... 3.75

Above luncheons include:

- salad, rolls, potato, vegetable, dessert & beverage
- V. Chiliburger, salad, french fries, dessert &  
 beverage ..... 2.50

- VI. Shrimp Loui Salad, rolls, dessert & beverage .. 3.75
- VII. Chef's Salad, rolls, dessert & beverage ..... 3.50
- VIII. Gourmet Luncheon Preparations Prices Upon Re-  
 quest

*15% gratuity will be added to meal ticket for table service*  
*Prices subject to change, with notice*  
*Minimum guarantee required for each meal*

### Dinner

- Buffet: Minimum 75 people ..... \$6.00  
 Molded jello salad, potato salad, ambrosia salad, 3-  
 bean salad with special house dressing, roast baron of  
 beef, cheese platter, relish tray
- Outdoor Barbeque: Minimum 50 people  
 (Weather permitting)

- I. Barbequed ribs & chicken ..... 7.00  
 Tossed green salad with special house dressing, potato  
 salad, relish tray, barbequed beans
  - II. New York cut sirloin steak ..... 7.50  
 Tossed green salad with special house dressing, potato  
 salad, 3-bean salad, ambrosia salad, relish tray, baked  
 beans.
  - III. Salmon ..... 8.00  
 Tossed green salad with special house dressing, cole  
 slaw, molded jello salad, relish tray, au gratin potatos
- 10% gratuity will be added to meal ticket for buffet &  
 barbeque service.*

#### Individual Table Service:

- I. Pot Roast Beef, with buttered noodles ..... 5.50
  - II. Roast Half Chicken, with rice pilaf ..... 5.50
  - III. Veal Cordon Bleu, with rice pilaf ..... 6.00
  - IV. Roast Prime Rib of beef au jus, with baked potato 7.50
  - V. New York cut sirloin steak, with baked potato 7.50
  - VI. Roast leg of lamb, with rissole potatos ..... 8.00
  - VII. Medallions of beef, with sauce bordelaise, rice  
 pilaf ..... 9.00
  - VIII. Gourmet Dinner Preparations Prices Upon Request
- All dinners include: salad, vegetable, rolls, dessert &  
 beverage

*15% gratuity will be added to meal ticket for table service*  
*Prices subject to change, with notice*  
*Minimum guarantee required for each meal*

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## The Thatch Patch



By Jim Chapman

Everyone seems to be in a quandry now...whether fertilizer is going to be available next year...at any cost. I wish I could give you an answer you'd like to hear.

The uncertainties of supply and future pricing will create some severe strains on your budget. To be sure costs don't trap you into following a lesser program than you need, planning and purchasing early is critical. Then you will be comfortable knowing you have laid up what you need for the season ahead.

The cost of all supplies is just one of the problems facing turf managers in the Pacific Northwest. Another seems to relate to a change in the climate. Whether permanent or not remains to be seen.

For the past 3 years our summer humidity levels seem to have increased. As a result of this and a general goal of lush grass, the incidence of "new diseases" is increasing. Are we beginning a "Hot House" environment like the East and Midwest?

Brown Patch was a rare summer visitor before...now common during our hot, humid spells. Leaf spot, usually only a spring problem, is showing up in summer and early fall. Pythium or grease spot was a rarity and usually restricted to new seedings—where too heavy seeding and too

much water hold humidity levels at 100%. I have seen Pythium of greens this summer, though not damaging...yet.

The USGA Green Section Record, July issue, contained an article on bentgrass management by Alex Radko, Eastern Director. An excellent report that is certainly timely. In it he advocates letting grass grow, not forcing it. "Grasses should not always be a vivid green color. Grasses have their ups and downs due to weather fluctuations, traffic, time of year, soil conditions and can't be uniformly bright green at all times. The primary criteria to judge by is the turf fullness and playing quality, not its color."

So, with fertilizers scarce and costly, with diseases increasing and perhaps even stimulated by over-fertilization, with gasoline expensive and repairs hard to afford; maybe it's time to rework our summer programs. Lighter feeding and regular fungicides, more iron and sulfur, perhaps, more attention to aerifying or topdressing? On that note, please plan to hear Dr. John Madison at the Turf Conference, Sun River. His ideas on topdressing are controversial and intriguing and very interesting.



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## What's to Become of Golf Course Chemicals?

**Editor's Note:** This article is reprinted from the Mid-Atlantic News Letter for the Mid-Atlantic Association of Golf Course Superintendents and is edited by Craig A. Spottswood.

The upcoming labeling of toxic chemicals for "restricted use" only and the nationwide certification (qualification) of pesticide applicators are new EPA (Environmental Protection Agency) rulings which are soon destined to become state adopted laws. How will they effect the golf course superintendent?

The EPA has once again eluded the golf course superintendent and his need of chemicals for the 1,150,152 acres of golf course turf in the United States. Evidently 10,000,000 golf courses do not represent a large enough concern to warrant a classification within EPA's 10 categories of professional pesticide applicators, and consequently will not be permitted to use "restricted use" chemicals after October 12, 1976. "Neither commercial nor private applicators may use those pesticides which are restricted for us only by certified applicators unless they are certified for this purpose under a state program approved by the EPA" (Federal Registrar, February 22, 1974). The individual state programs will be based upon EPA guidelines and furthermore, must be approved by the EPA. In other words the individual states can add amendments to the proposed guidelines but not detract from the Federal requirements of "restricted use" chemicals or certification of pesticide applicators. If the federal guidelines do not include our needs for chemicals neither will the individual states, at least not right away. If the law would permit each state to add golf course guidelines, every state would have its own battle and no two states would have the same regulations.

To add to this dilemma, future chemical labeling will state what a given chemical can be legally used for; the application of that chemical will be limited to only what is on the label. Needless to say not many chemicals will receive turf labels if, in EPA's eyes, golf courses do not exist. Think back to all the chemicals you have used in years past that have only provided crop information on the label, yet are commonly and universally in use on golf courses. These restricted chemicals will be out of reach if we are not certified, and again out of our reach if the chemicals are not specifically labeled for use on turfgrass.

By October 21, 1976 only certified pesticide applicators can use or supervise the use of "restricted use" chemicals. As of this date 10 professional classes of pesticide applicators have been designated adequate to cover all major forms of chemical usage in the U.S. Golf Courses are not mentioned, not even as a sub-classification, anywhere within the proposed EPA guidelines.

Categories presently listed are:

1. Demonstration pest control
2. Public Health pest control
3. Forest pest control
4. Aquatic pest control
5. Regulatory pest control
6. Agricultural pest control
7. Seed Treatment
8. Right of way pest control
9. Industrial, institutional and structural pest control
10. Ornamental and turf pest control (Ornamental turf,

*Continued on Page 8*

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Continued from Page 7, Column 1

persons engaged in applying restricted pesticides for the maintenance and production of ornamental plants.)

All commercial applicators will be required to meet a general standard demonstrating knowledge of safe pesticide use and the principles and practices of pest control. The individual states can impose additional standards which will vary according to different applicator professions and situation. Individual states must have plans as to how certification will be done by October, 1975; plans will go into effect by October, 1976. Each state department of agriculture will ultimately determine the finalized rules from EPA guidelines.

Assuming golf course superintendents correct the above misrepresentation he will then be faced with compliance of regulations of certification. Some of the presently proposed regulations are as follows:

1. Annual \$30.00 P.C.A. fee
2. Designated certified pesticide applicator registered with the Department of Agriculture—yourself and any applicators under your supervision.
3. Display of license on equipment used for chemicals.
4. Proof of scientific and practical knowledge of pest control.
5. Two years experience—full time—for applicant of PCA license, or
6. Certified from accredited college or special training acceptable to the Department of Agriculture, or
7. A combination of one year specialized training and one year practical experience.
8. PCA must meet financial security requirements—insurance for risks of injury thru use of chemicals.
  - a. Bodily injury \$100,000 each applicator or person involved and \$300,000 each occurrence.
  - b. Property damage \$15,000 each person, \$30,000 aggregate
  - c. Certificate of insurance—kept in full effectNote: Workman's Compensation might cover above requirements—to certainly be checked out when ruling finalized to law.

#### PCA Record Requirements

Maintain accurate record of all applications of pesticides

Name of applicator

Date of application

Type of plants

Amount of acres

General area designated

Common name of pesticide used

Rate and concentration

Total amount used

Time of day applied

Wind direction and velocity

Weather conditions

In addition, the applicator must:

Apply in accordance with label instructions

Store chemicals properly

Dispose of empty containers

Use protective clothing and equipment

#### EDITORS NOTE:

The above contains the basic information available to date from the Federal Register of February 22, 1974 and from the Maryland Department of Agriculture; resourcefully acquired by Angelo Cammarota who has been following new EPA development thru the past year.

The Federal Register of proposed rules for certification of pesticide applicators runs eight pages long of fine print—and offers first hand indications of what is to come of our

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chemical future. Unfortunately though we were so excluded in this lengthy dissertation that I feel a more detailed report of this paper at this time is worthless. You can be certain future amendments will be made to include our operations—at which time more complete information will be made available to our members thru the newsletter and our monthly meetings.

#### MORE YET:

The new Federal Insecticide/Fungicide and Rodenticide Act—legal and regulatory aspects have been kicked around by many people and is being administered by EPA in Washington, D.C. It is very important that every pesticide applicator fully understands the intent provisions and legal aspects of the new law. There are certain new provisions of the law which are of major concern to all persons manufacturing, selling, recommending or using pesticides. This law for the first time, stipulates that farmers and other pesticides applicators use only EPA registered pesticides according to the label. Under the new current laws, penalties may be levied against a purchaser who misuses pesticides. Violators can be fined up to \$1,000 or 30 days in prison or both upon criminal conviction.

Criminal penalties now in effect for a commercial applicator, wholesaler, retailer, dealer, or other distributor, who knowingly violates the law is liable to a \$5,000 civil or \$25,000 criminal fine or one year in prison or both.

Those of you who did not study nor take the pesticide applicators exam in Washington in 1974 should start seriously thinking about getting signed up for such a class and qualifying yourself for such a time as this legislation becomes law. —EDITOR.

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