

Sponsored Student Program

USE OF FILM WRAPPING IN POSTHARVEST STRATEGIES TO INCREASE SHELF LIFE OF FRUITS AND VEGETABLES

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Individually shrink-wrapping fruits and vegetables in high density polyethylene (HDPE) film is a recently developed postharvest technique that lends itself to many handling, harvesting, storing, and marketing strategies. Recent discussions include its use in storage of Boniato sweet potato, reducing decay and weight loss of cucumbers, and its interactive effects with hot water and gamma irradiation quarantine treatments on decay of grapefruit. In most commodities studied, film

wrapping significantly reduces weight loss, shrinkage or shriveling, and senescence, and can promote the wound healing of surface blemishes and minor breaks in the epidermis, as contrasted with nonwrapped treatments. Other advantages include reduction in contact decay or "nesting" and greater variety and brand name identification. The mode of action of these physiological benefits is through the creation of a water saturated atmosphere (WSA). However, this same WSA provides an ideal growth environment for such pathogens as *Alternaria*. Providing measures are taken to allow adequate decay control, film wrapping can serve as a valuable tool in extending shelf life, increasing market value, and opening new markets for fruits and vegetables.

AVOCADO STEM INJECTION OF ALIETTE CA FOR CONTROL OF PHYTOPHTHORA ROOT ROT

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The avocado industry is located primarily in Africa, Australia, Caribbean Islands, and California. Increased production in Florida has led to increasing awareness of the problem that avocados have with phytophthora root rot (PRR). It was initially discovered following the floods of 1946. Severe symptoms of the disease following 1969 rains prompted Ciba Geigy to develop Ridomil. This has been a very successful product in control of the disease. A disadvantage of Ridomil is that it can only be applied as a soil drench. Since many plants with PRR will have damaged root systems, the product may not readily be taken up by the plant. Thus, the development of Aliette (Fosetyl-Al) is a big step in the treatment of

PRR. It can easily be applied as a foliar spray and is transmitted to plant roots.

Recent studies in Africa led to interest in the use of Aliette as an injection into the tree trunks. Tests were conducted in Collier and Dade Counties in Florida by placing approximately three 15-ml injections in each tree. (The dosage may vary with tree size.) The curing process may take two to four treatments, but test trees were shown to be back into full production within two years.

The holes are placed about 5 cm apart at a 15 degree angle to the trunk. The injections are made about 15 cm above the ground or just below the bottom growth. This is done so that the chemical can be moved efficiently into the root system without spreading into branches. The results of this field test showed that injections of Aliette Ca provided better recovery of diseased trees than drenches of Aliette or Ridomil. Aliette is expected to become a very popular fungicide, especially in control of PRR.

CITY OF LAKE LAND REFORESTATION PROGRAM

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A major city-wide program of urban reforestation was instigated in Lakeland in 1981, by Lakeland's Park and Recreation Department. Assistant Superintendent of Parks, Chuch Vilushis, is in charge of the program.

In his talk titled "City of Lakeland Reforestation Program," Vilushis reported that the reasons for reforestation are not strictly for aesthetics. Better air quality, reduced noise levels, energy conservation, and increased property values are all factors.

Vilushis said that reforestation in urban areas can increase property values by as much as 27%. A canopy of trees pro-

vides shade, reducing temperatures in the summer. In the winter the trees act to "trap" the warm air, thus raising temperatures. The trees also act as filters to cut dust and noise pollution which are heavy in any large city.

The reforestation program carries most of its strength through various city ordinances. In 1974, city ordinance #1902 was passed requiring developers to add trees to their projects. Since then tougher requirements have been passed. Today, laws require parking lots to have a 2% shade canopy and a "green strip." A green strip consists of trees and a hedge that separate the road and parking lot.

Besides enforcing these laws, Vilushis is in charge of planting trees along city roads. Much time and money has been spent this year removing trees that froze last winter. These trees were unsuitable varieties for the area, that were planted years ago. It will cost the city of Lakeland some \$37,000 to

remove them. These trees will be carefully replaced with hardier ones.

Vilushis' final responsibility is making sure that the new trees planted receive proper maintenance so that future generations will benefit.

SHALLOW WATER TABLE FLUCTUATIONS IN RESPONSE TO RAINFALL, IRRIGATION, AND EVAPOTRANSPIRATION IN FLATWOODS CITRUS

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In 1984 and 1985, the level and fluctuation of a shallow water table was recorded in a bedded, drip-irrigated citrus grove in the Indian River area. This perched water table was due to a subsurface soil layer which was impermeable to water flow. The level at which the perched water table exists can have a direct influence on the vigor and productivity of bedded citrus trees. It was determined that rainfall amounts

Vilushis is very proud of the changes that he has helped make in Lakeland. He feels that the success of Lakeland's reforestation project on a limited budget is noteworthy and hopes it will attract more cities in adopting such a program.

as low as 0.10 inches and irrigation amounts as low as 15 gal/tree could cause a measureable rise in the shallow water table. Heavy rains brought the water table as high as 14 inches below the top of beds, and the drainage rate following this was determined to be about 4.6 inches/day. The water table declined at a greater rate during the hours of maximum evapotranspiration. This indicated that some of the perched water was being made available to the citrus trees through upward flux into the root zone. Irrigation scheduling must take into account the available water from upward flux because this water can contribute significantly to the evapotranspiration demand of citrus on bedded soils.

ENERGY USE BY THE FOLIAGE INDUSTRY

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Florida's mild winters afford tremendous savings on greenhouse heating costs when compared with heating costs in the north. Even though Florida's heating bills are 1/10th of our northern neighbours', the cost of greenhouse heating is still a concern of the foliage industry. A study by D. E. Buffington and D. B. McConnell compared 200 responses/year for 1980 and 1983 by growers to survey questions about their energy conservation measures, type of fuel used, type of heating system, and greenhouse covering materials used. The growers, who represented approximately 240 acres of foliage, also rated foliage species by chill damage experienced for both years.

Energy conservation measures most frequently practiced by growers were lowering thermostat settings and installing double polyethylene coverings. The number of growers lowering thermostats decreased by 1/2 in 1983. New strategies for

conservation such as increased combustion efficiency, increased space utilization, and poly over glass were indicated in the 1983 survey responses.

Type of heating system changed in 1983, with less growers using forced hot air and more using steam space heating. New kinds of heating reported in 1983 were hot water or forced air under the bench and in the medium and radiant heat. Twenty-six percent of growers surveyed now use heating in and under propagation beds. The two most common fuel types remain bottled gas and #2 oil.

Greenhouse covering materials varied slightly for fiberglass (50% to 45%) and glass (17% to 20%). There was an increase in poly use from 12% in 1980 to 20% in 1983. Number of growers using saran decreased by 1/2.

The top three foliage plants lost in 1983 to chill damage were still *Diffenbachia*, *Epiprennum*, and *Aglaonema*. Data were not presented to correlate type of plants lost from chilling injury with the type of growing structure.

It can be presumed that Florida foliage growers will pay more attention to greenhouse heating and heat conservation measures in the future as a result of recent harsh winter freezes.

AVOCADO STEM INJECTION OF ALIETTE CA FOR THE CONTROL OF PHYTOPHTHORA ROOT ROT

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Avocado production in Florida is adversely affected by *Phytophthora* root rot. *Phytophthora* root rot, caused by *Phytophthora cinamomi* Rands., is worst in wet or flooded soils. Heavy summer rains and hurricane flooding have contributed to the loss of entire avocado orchards to root rot in south Florida. Fungicides have been used to control root rot with varying degrees of success. Soil drenching with Ridomil

or Aliette and foliar application of Aliette were compared with stem injection of Aliette Ca. Tree recovery was the basis for comparison. Visual tree symptoms of root rot are dieback of the top branches and wilting. An orchard in Collier County near Lake Okeechobee was used for this experiment. Less than 72 hr after a flooding rain, defoliation of trees was observed. The injection of Aliette Ca was accomplished using 60 ml plastic syringes. Three or four syringes, each containing 15 ml Aliette Ca, were injected per tree depending on the tree canopy diameter. Injections were made below the first branching of the tree 15-30 cm above the soil surface. Injections were 5 mm apart in drilled holes. Holes were drilled

smaller than the injection needle so that the material could be forced into the tree by pressing the syringe plunger. Stem

injection of Aliette Ca provided better tree recovery than any other treatment in this experiment.

WATER USE OF YOUNG CITRUS TREES

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This paper discussed the usage of water by young valencia orange trees. These trees were planted in June 1984 in lysimeters to represent actual field conditions that the plant would normally grow in. The soil was watered automatically based on measurements of the water in the soil and the amount of irrigation which was scheduled for the different trees. Another variation in the test was that half of the trees had grass ground cover and the other half was strictly top soil.

The trees were grown in two sets of eight lysimeters, half with grass and half without grass. There was a structure that could cover the trees in case of rain. It was observed that when the trees with grass were young they competed with the grass for water and did not grow as vigorously as the trees grown in sand. As the trees developed, the competition between the trees and grass declined due to the more elaborate root system and these trees were starting to grow as vigorously as the ones grown in plain sand. In this experiment there were three different watering schedules to meet the three desired water potentials of minus ten, twenty, and forty centibars. The best growth of the trees with grass ground cover occurred at minus forty centibars and the best growth of the trees grown in plain sand was at minus twenty centibars.

HYBRID CALLA LILIES, A POTENTIAL NEW CUT AND POT CROP FOR FLORIDA

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Colorful hybrid calla lilies (*Zantedeschia* sp.) have been developed in New Zealand. These new hybrids have a wide color range and they are adaptable to Florida field and greenhouse culture. For field cut flower production, a late winter planting is recommended with flowering commencing 3 months after planting. Each growing point arising from the rhizome can produce up to 3 flowers per season; the larger rhizomes usually have numerous growing points.

Currently the rhizomes of these new hybrids are not yet readily available in the USA, but could be imported from

New Zealand and easily multiplied under Florida field conditions. Calla lilies could be effectively grown by caladium producers following the autumn digging of the caladium crop. Much of the equipment utilized in caladium digging and planting would be readily adaptable for handling calla lilies.

The calla lily flowers have acceptable keeping qualities as cut flowers and as potted plants in post production situations. Besides the long lasting flowers, the plants have attractive lance-shaped leaves with white markings on them. For potted plant production, growth retardants are necessary to reduce plant height. Paclobutrazol (Bonzi) at 4 mg/pot provides effective height control. Ancymidol (A-Rest) is also an effective growth retardant for calla lilies. Calla lilies have the potential to become a significant floriculture crop in Florida.

BUSH SNAP BEAN CULTIVARS SUITABLE FOR WINTER PRODUCTION IN SOUTH FLORIDA

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Adverse environmental conditions in other areas, market price, availability of labor, and reduction of production in other areas are contributing factors for South Florida having large amounts of bush snap bean acreages.

Richard Tyson and Herb Bryan of Homestead conducted bush snap bean (*Phaseolus vulgaris* L.) cultivar performance trials over 3 winter seasons (1983 to 1985) in Dade County,

Florida. Important factors for machine harvest, i.e., snap bean pod removal force, early vigor, and uniformity, varied between trials of 'Strike,' 'Triumph,' 'Sprite,' 'Savor,' 'Picker,' and '76-107.' Pod removal force was less with 'Triumph' and '76-107' compared to the others. 'Savor,' 'Picker,' and '76-107' maintained quality marketable pod appearance longer than other cultivars in postharvest storage. This characteristic, along with early vigor and uniformity, lends 'Savor' suitable for mechanical harvest in South Florida. With the trend toward mechanical harvesting of bush snap beans, growers may need to consider reevaluating the cultivars they are using.

PROPAGATION OF CITRUS ROOTSTOCKS BY ROOTING STEM CUTTINGS

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Different citrus rootstocks vary in the ease with which they can be rooted. Such factors as leaf area, age of the stock

plants used, propagation environment, and rooting hormones affect the rooting of citrus cuttings. This study established that one can obtain high quality rootstock material of Swingle citrumelo by selecting 6" terminal stem cuttings with 6 leaves per cutting. In addition, cuttings taken from young seedlings (clones) root more readily than cuttings taken from mature

trees (old clones). Generally, these cuttings should be taken in June or July from recently matured terminal growth off healthy, vigorous rootstocks. Cuttings were rooted in a propagation environment consisting of a peat:perlite (1:1) mixture under a greenhouse mist system (15 seconds per hour) with ambient temperatures ranging from 75-90°F and soil temper-

atures of 80-90°F. Evaluations after 6 weeks revealed terminal 6 leaf cuttings treated with 3 auxins, primarily NAA, had the highest percentage rooting, with more roots per cutting and a greater total root weight. Therefore, propagation of Swingle citrumelo by stem cuttings is a viable alternative when seed is neither available or in sufficient quantity.

CARAMBOLA PRODUCTION IN FLORIDA

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C. W. Campbell, IFAS, Tropical Research and Education Center, Homestead, reports that carambola, originally grown in home gardens in Florida, has become a commercially grown crop in this state. Early trials of growing several varieties gave inferior results. Commercially, these fruits were low in aesthetic and quality standpoints. Germplasm from Asia was used to propagate—primarily through grafting—a number of superior varieties. These superior cultivars ranged

in color from light green to brilliant orange. Their flavor varied from sweet to tart. They also produced a wide variety of sizes in the characteristic "star-fruit" shape. The carambola tree grows 70 to 100 trees per acre, and mature varieties can withstand temperatures below freezing. This characteristic allows the carambola to be grown commercially in several areas of the Florida peninsula. Fruits are harvested twice per year, in December and again in August. These fruits are highly perishable, and pickers are instructed on proper handling and packaging techniques. Some varieties were found to be less perishable and more compact in design. These fruits have been selected to be shipped to the consumer, who has shown an ever increasing interest in tropical fruits.

WATER USE OF YOUNG CITRUS TREES

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Little is known about water use of young citrus plants as previous research in this area has been conducted on mature groves. With so much of Florida's citrus acreage in young trees and increased need for early returns on investment, optimum irrigation regimes need to be determined to maximize growth of young citrus plantings.

To address this need, a field lysimeter experiment is underway at the IFAS Irrigation Park in Gainesville. The objectives of the study are (A) to determine the effect of soil water

potential on growth, and (B) to determine the effect of ground cover on growth of trees and water use. The treatments are (A) grass and no grass, and (B) irrigation at soil water potentials of -10, -20, and -40 centibars. Data collection since June, 1984 has been carried out.

Measurements such as trunk cross-sectional area and height reveal differences in treatments. In the "no grass" treatment, irrigation at -20 cb is optimum, -10 cb being too wet, and -40 cb too dry. In the case of the "with grass" treatment, however, -40 cb irrigation scheduling has proven to be better than -20 cb. The optimum treatment combination is "no grass" with irrigations based on -20 cb, obviously due to competition by the grass ground cover.

OBSERVATION ON THE USE AND COVERINGS FOR COLD PROTECTION DURING AN ADVECTIVE FREEZE

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During the advective freeze of January 20-23, 1985, observations were made on various cold protection methods used in Florida. Because high winds accompanied the freeze, some growers decided not to micro-sprinkler during the first night. In one Navel block, micro-sprinklers were operated during the first two nights while sprinklers in another section of the grove were on only the second night, when the wind was

less severe. Temperatures during this certain freeze reached 19°F.

Results from this experiment indicated that the trees with water both nights of the freeze and where jets were on the North or West side of the tree received the best protection. Trees with water only the second night received severe damage. This suggests that micro-sprinklers can be successfully used for tree protection during an advective freeze, but they must be run during all the cold nights, not just one.

In another location, coverings were used alone with micro-sprinklers. Examples of coverings were tarpaper, plastic bags, or 55 gallon drums.

Results indicated that the combination of the two provide the best overall protection.

Constitution

Article I—NAME—This organization shall be known as the Florida State Horticultural Society.

Article II—OBJECTIVE—The objective of this Society shall be the advancement and development of horticulture in Florida.

Article III—YEAR—The years shall begin January 1 and close December 31.

Article IV—CLASSIFICATION OF MEMBERSHIP—There shall be four classifications of membership, all of which carry voting privileges:

- A—Annual
- B—Patron
- C—Student

Nothing in this article shall be construed as operating against or canceling the privileges of Life Members accepted as Life Members prior to the adoption of this constitution.

Article V—ELIGIBILITY FOR MEMBERSHIP—Any individual, firm or partnership interested in the development and advancement of horticulture in Florida shall be eligible for membership.

Article VI—DUES—Dues shall be paid annually according to classification at rate as prescribed in By-laws.

Article VII—ANNUAL MEETING—The Society shall hold an annual meeting each year in accordance with the By-laws unless prevented from doing so by caused beyond its control.

Article VIII—SECTIONS—The Society shall be divided into sections representing various horticultural interests as provided in the By-laws.

Article IX—OFFICERS—The officers shall consist of a President, a Vice-President from each section, a Secretary, a Publication Secretary, an Editor, a Program Coordinator, and a Treasurer, which officers shall be elected by a majority vote of the membership present at the annual meeting and shall assume their respective offices at the beginning of the new year.

Article X—SUCCESSION—In the absence of the President or his inability to serve temporarily the Vice President of the Citrus Section shall serve instead. If the position of President is vacated, the Executive Committee shall designate his successor.

Article XI—EXECUTIVE COMMITTEE—The Executive Committee shall consist of not more than 15 persons including the immediate Past President and all Officers above named, the others to be selected at same time and in same manner as prescribed in Article IX. the immediate Past President shall be chairman of the Executive Committee. The Executive Committee shall have authority to act for the Society between annual meetings.

Article XII—MEETINGS OF THE EXECUTIVE COMMITTEE—The Executive Committee shall meet upon call of the Chairman at such time and place as may be approved by a majority of the Committee. A majority of the Committee shall constitute a quorum. The Committee may be canvassed by mail and vote by ballot in like manner.

Article XIII—COMMITTEES—The Chairman of the Executive Committee shall, with the approval of the Executive Committee, appoint all standing or special committees as provided in the By-laws.

Article XIV—DUTIES OF OFFICERS—The *President* shall be the official head of the Society and preside at the general session of the annual

meeting. He shall be directly responsible to the Executive Committee and may be removed from office for cause by an affirmative vote of a majority of the full Executive Committee.

The *Vice Presidents* shall be members of the Executive Committee. The Vice President of the Citrus Section shall assume the duties of the President in the temporary absence of the President. The Vice Presidents of the various sections shall preside over the particular sections of which they are representatives at the annual meeting.

The *Secretary* shall record all records of all meetings of the Executive Committee and shall be responsible except as may otherwise be designated in the By-laws for recording and keeping proceedings of the annual meeting. He shall likewise issue and mail out statements of dues to the membership, notices of meetings and perform such other duties as ordinarily accrue to that position.

The *Publication Secretary*, the *Editor*, and the *Program Coordinator* shall perform such duties as may be prescribed and authorized by the Executive Committee.

The *Treasurer* shall be responsible for all funds paid into the Society and shall issue and countersign all vouchers paying bills or accounts against the Society. The Treasurer shall be placed under bond in an amount determined by the Executive Committee, premium on which shall be paid by the Society.

Article XV—AMENDMENTS—This Constitution may be amended at any annual meeting upon the recommendation of a majority of the Executive Committee when approved by a majority vote of the membership present.

Article XVI—EFFECTIVE DATE—This Constitution shall become effective immediately upon approval by a majority vote of the membership at the annual meeting in October 1951.

This Constitution was revised at the annual meeting in November 1963, in November 1967, and November 1973.

1. The Society's year shall begin January 1 and end December 31.
2. Dues—dues shall be paid annually for the current year and shall be payable to the Treasurer of the Society. Dues shall be as follows:

Annual Membership	\$ 15.00
Patron Membership	\$100.00
Annual Membership (student)	\$ 5.00
3. Annual Meetings—the Society shall hold an annual meeting in the fall of each year at a place and time selected by a majority vote of the Executive Committee. The order of business at the annual meeting shall be determined in advance each year by the Executive Committee.
4. The meetings of the Society shall be devoted only to horticultural topics, from scientific and practical standpoints, and the presiding officer shall rule out of order all motions, resolutions and discussions tending to commit the Society to partisan politics or mercantile ventures.
5. SECTIONS—The Society shall consist of the following sections:
 - Citrus Section
 - Vegetable Section
 - Krome Memorial Institute
 - (Tropical and Deciduous Fruits)
 - Ornamental Section
 - Handling and Processing Section
 - Garden and Landscape Section

Other sections may be added on recommendation of a majority of the Executive Committee when approved by a majority vote of the membership present at an annual meeting.

By-Laws

COMMITTEES

Nominating Committee—The President shall appoint a Nominating Committee consisting of not less than 2 persons from each section, 1 of whom shall be the most recent past Sectional Vice-President able to serve. This committee shall, at each Annual Meeting, make nominations for officers and other members of the Executive Committee for the ensuing year, provided the members representing various Sections shall seek advice of each Section in open meetings concerning the nomination of Vice-President for that Section. Such nominations by the committee, however, shall not preclude nominations from the floor. The President shall designate a member of this committee as Chairman.

Membership Committee—The President shall appoint a Membership Committee consisting of at least 3 members from each Section initially appointed for 1 to 3 year terms and designated on a rotating basis so after the third year all members will be appointed for a 3 year term with no more than one-third of the members renewed for any given year. The President shall designate the Chairman of this committee as Membership Coordinator. This committee shall develop plans for soliciting and promoting new memberships throughout the year and for assuring the needs of the membership are being met by the services and activities of the Society. The Membership Coordinator shall meet with the Executive Committee when requested by the Chairman, and shall make recommen-

dations to the Executive Committee on membership enlargement, participation and related activities.

Program Committee—The Vice Presidents of the various sections shall constitute a program committee of which the President shall be the Chairman, the Program Coordinator, the Vice Chairman, and the Secretary and Treasurer shall be ex officio members.

Student Affairs Committee—The President shall appoint a Student Affairs Committee comprised of 1 member each from the faculties of all educational institutions in the State of Florida offering a 4 year horticultural program leading to a Bachelor's degree, 2 members representing different industries, and 2 student members from different institutions. Membership of this committee shall be initially appointed for 1 to 3 year terms and designated on a rotating basis so after the third year all members will be appointed for a 3 year term with no more than one third of the members renewed any given year. The President shall designate the Chairman of this committee as the Student Affairs Coordinator, and he shall report to the Executive Committee when invited by the Chairman. This committee shall coordinate all affairs of the Society related to student activities, including distribution of patron funds for support of student attendance at meetings, recognition of students at meetings, reports of students and other student-related activities.

Editorial Committee—The President shall appoint an Editorial Committee consisting of one Associate Editor from each of five Sections, and the Editor who will serve as Associate Editor for the sixth Section. This Committee shall meet with the Editor as called, and assist him in the editing and preparation of manuscripts for publication in the Proceedings as needed. Names of nominees for Associate Editor positions shall be presented to the Executive Committee along with brief resumes of their background and qualifications. Associate Editors shall then be appointed by the President with the approval of the Editor and the Executive Committee. Such appointments shall be for a 3-year term with option for renewal.

Auditing Committee—The President with the approval the Executive Committee shall appoint an auditing committee which committee shall confer with the Treasurer in preparing an audit to be presented by the Treasurer at the annual meeting. The President shall appoint such other committees as may be deemed advisable and approved by the Executive Committee.

Awards Committee—There shall be separate committees on awards, as follows:

(1) **Presidential Gold Medal Award Committee**—The Presidential Gold Medal Award Committee shall consist of the Chairman of the Executive Committee, who shall act as Chairman, and three or more other members of the Society appointed by the President.

The Presidential Gold Medal shall be awarded to one individual who has contributed most to Florida horticulture through work published in the *Proceedings* over the preceding time period since the given section was last eligible. The award will rotate each year from section to section with the Citrus Section eligible in 1975 followed in order by the Krome Memorial, Garden and Landscape, Vegetable, Ornamental, Handling and Processing Sections.

The award will consist of a gold medal suitably inscribed, a printed certificate, an honorarium of \$250.00, and hotel expenses for the recipient and spouse while at the annual meeting.

(2) **Best Paper Award Committees**—The Best Paper Award Committees shall be appointed by the President annually from each of the Society's sections. Each Committee will consist of three members who a) most recently have served as vice-president of the respective sections, but b) who were not authors of papers in that volume of the *Proceedings* from which the selection is being made, and c) who remain members of the Society. If less than three members qualify for appointment in any section, the President may appoint members lacking qualification "a)" above. Membership of these committees will not be announced.

Each sectional Best Paper Committee will select the best and most meritorious paper as printed in the previous year's *Proceedings* for its respective section.

This award shall consist of a medal and printed certificate suitably inscribed, and an honorarium of \$100.00.

(3) **President's Industry Award Committee**—The selection of the paper qualifying for the President's Industry Award will be made by a commit-

tee consisting of at least one member from each section of the society, appointed by the President. The award will be presented to the author of the single best paper given at the Florida State Horticultural Society's annual meeting by an industry author. An industry author is defined as anyone other than a staff member of an academic institution or a government agency. In those instances where there are both senior and junior author or authors, all must meet the qualifications of industry authors. The senior author of the paper must be a member of the Society. Any paper which receives recognition as the best paper in a Section will also be eligible for the President's Industry Award if other qualifications are met. The award shall consist of a plaque suitably inscribed and presented at the President's discretion.

(4) **Council Memorial Tomato Research Award**—This award shall be presented based upon \$2,500, donated to the Society by Mrs. Emmett H. Council, Council Farms, Ruskin, Florida. The award shall be continued until the fund and earnings from investments are exhausted. The Award Committee shall consist of the Chairman of the Executive Committee, and four other members of the Society appointed at large by the President whose names will not be announced. The award shall be given to the individual or group who have done work with the most potential to further the fresh market tomato industry in Florida through advances reported in any single publication in any scientific or technical form. Such publication must have been published during the two previous calendar years. The senior author of the publication upon which the award is based must be an active member of FSHS. At the discretion of the Chairman, the award may not be presented in any given year when there do not appear to be suitable nominees.

The award shall consist of a certificate suitably inscribed and \$200.00 honorarium.

DEPOSITORY

The Executive Committee shall have authority to select a depository or establish a trusteeship for funds of the Society as it may deem in the best interest of the Society.

"All uncommitted funds shall be invested by the Treasurer in Federally-insured investments approved by the Executive Committee. For prudent operation and financial security of the Society, funds in the amount at least 1.5 times Annual Budget shall be maintained whenever possible, and such Reserve Funds shall not be allowed to exceed 2.5 times Annual Budget. Deviations from these practices may be authorized by a majority vote of the Executive Committee."

APPROVAL OF BILLS

All bills before being paid shall be approved by the President, Secretary or Treasurer, and vouchers drawn to pay such bills shall be signed by the President or in his absence the Vice President of the Citrus Section and countersigned by the Treasurer.

RESOLUTIONS

Resolutions may originate either in the Resolutions Committee or in a regularly scheduled sectional business meeting. In the latter case, the resolutions must be supported by a majority vote of those members present and voting. All resolutions will be evaluated by the Resolutions Committee and transmitted with its recommendation to the Chairman of the Executive Committee. He will place them before the full Executive Committee by either (a) calling a special meeting of the Executive Committee or (b) instructing the Secretary to poll the members of the Executive Committee. Those resolutions approved by at least eight members of the Executive Committee will be presented by the Chairman of the Resolutions Committee to the membership at the annual business meeting for action by the Society as a whole.

HONORARY MEMBERS

Any individual who has rendered especially meritorious service to the Society and to the advancement of horticulture in Florida may be designated by a two-thirds vote of the full Executive Committee of the Society as an Honorary Member of the Society. Such honorary members shall not be required to pay dues.

EXECUTIVE COMMITTEE MEMBERS-AT-LARGE

For service in 1987 one of the Members-at-Large of the Executive Committee shall be elected for a two-year term and one for a one-year term.

For service in 1988 and thereafter, one Executive Committee Member shall be elected each year for a two-year term.

AMENDMENTS

These By-laws may be amended at any annual meeting by an affirmative majority vote of the membership present when such amendments have been approved and recommended by a majority of the Executive Committee.

These By-laws shall take effect immediately upon adoption by the membership at the annual meeting in October 1951.

These By-laws were revised at the Annual Meetings in November 1963, November 1964, November 1967, November 1971, November 1973, November 1974, November 1975, November 1977, November 1978, November 1983 and November 1985.

REPORT OF EXECUTIVE COMMITTEE FOR 1985

Motion passed and important discussions at the first Executive Committee Meeting, January 10, 1985, Lake Alfred.

In a general discussion of the 1984 Annual Meeting, favorable comments were received regarding having awards presentations early in the meeting and the new General Meeting format. Suggestions were made regarding use of slides during the Awards Presentations to increase status and meaning of awards during the General Session. Timmer indicated Dr. James Barrett, Ornamentals Department, University of Florida, Gainesville, will be serving as Editor during 1985, with Timmer assisting. Dr. James Graham, University of Florida, Gainesville, will serve as Associate Editor for Citrus. A Committee was appointed to study ways to improve continuity of officers and report back with recommendations. A motion passed to contract the clerical work of the Society to Leonard Secretarial Services instead of employing the clerk as an employee of the Society. A discussion was held regarding use of vacant program time slots and requests to publish papers which had been approved for publication by the University of Florida but which were not presented due to lack of time slots in a particular session. The matter was referred to the Program Formulation and Policy Committee for recommended action. A motion passed to instruct the Secretary to develop an appropriate change in By-Laws to authorize investments of FSHS funds in other than Government Bonds. Such motion to be presented for approval at a later meeting. A discussion was held regarding responsibilities of Vice Presidents at the Annual Meeting and a date was set for a meeting of the Program Committee to consider these responsibilities in more detail. A motion passed to increase the Clerk's salary by 3.2 percent.

Motions passed and important discussions at the Executive Committee Meeting held Friday, May 10 at Lake Alfred.

A report was received regarding status of the Proceedings. Several Sections had been completed and a few were almost finished. Anticipated publication would be around mid-June. In consensus, the Executive Committee ruled that sequence of sections in the published Proceedings should not impede publication and if they would be published earlier with a different sequence a variance from the traditional sequence of Sections would be allowed. A discussion was held regarding page overage charges, and whether they were sufficient to balance actual printing charges for extra pages. A committee was appointed to study this question and report back with recommendations. A motion passed to make Members-At-Large elected for two year terms, with one member being elected each year so the election of new members-at-large would alternate. The Secretary was instructed to prepare necessary By-Laws changes for approval at a later meeting. A motion passed to adopt the new secretarial contract developed by Reed. Prevatt reported on student activities and patron member solicitations indicating they had a goal of 50 patron members. Berry presented a proposed change in By-Laws to allow investments other than government bonds. A discussion was held regarding the proposed change. A motion passed to present the proposed change in By-Laws to the membership for adoption at the Annual Business Meeting. President Bistline and Chairman Campbell announced all of their committee appointments for the year. Chairman Campbell announced the appointment of a Centennial Committee to make plans for special observance of the 100th Anniversary of the Society at the Annual Meeting in 1987. Dr. Will Wardowski, IFAS, CREC, Lake Alfred, was appointed Chairman of the Committee. A motion passed to authorize the site selection committee to make a selection and confirm a contract with the Miami Marriott or the Miami Beach Doral as soon as possible. Following discussion a symposium was agreed upon for the Annual Meeting, on the general subject of the Caribbean Basin Initiative and its impact on different aspects of Florida horticulture. A discussion was held regarding details of local arrangements for this years Annual Meeting. A motion passed to allocate up to \$1500 for ladies activities at the Annual Meeting, including a prospective tour, and/or luncheon. A motion passed to keep registration fees for the 1985 meeting the same as they had been for 1984, \$17, \$6 and \$6 for members, spouses and students in advance and \$20, \$7 and \$7 respectively for registration at the meeting. A discussion was held regarding a review of policies to determine whether there might be some means by which articles in FSHS Proceedings could be referred. Following considerable discussion, the Chairman referred the question to the Program Formulation and Policy Committee and requested they report back with a recommendation. Following discussion, a motion passed to reconfirm our present policy of allowing 25 papers per Section with no deviations and no substitutions between Sections for unused time slots.

This are motions passed and important discussions at the Executive Committee Meeting held August 27, 1985, Holiday Inn, Tampa.

Barrett indicated a letter had been sent to several prospective printers for bids on the printing contract. He will have respective bids and recommendations for approval at the next meeting. Reed reported the Doral Hotel, Miami Beach, had been approved for the 1986 Meeting and a contract signed. This meeting will be the last week in October rather than the first week in November. Following discussion a motion passed to authorize the Site Selection Committee to contract either the Hyatt House, Orlando or the Dutch Inn, Orlando for the 1987 Meeting and report at the next Executive Committee Meeting. Berry presented a proposed By-Laws change regarding Members-At-Large. Following discussion a motion was passed to present this By-Laws change to the membership at the Annual Business Meeting for adoption. Following a report of the Publication Policy Committee, the Executive Committee by consensus agreed to change our policy to: 1) Continue to encourage original articles. 2) Rescind the requirement that all articles be original and allow the possibility of previously published data and portions of previously published manuscripts, or those previously submitted to other journals, if they are Florida oriented and properly cited or referenced. The committee was requested to report to the November Executive Committee with a suggested wording for the Policy.

Prevatt indicated the Student Committee still needs more support from people in the Ornamentals Section and are making special efforts to contact certain nurserymen and others in the ornamentals industry. A discussion was held regarding support of graduate students at the Annual Meeting. A discussion was held regarding ways to get more University graduate students to participate in meetings by giving technical talks. Following a discussion of proposed speakers and program arrangements for the Caribbean Basin Initiative Symposium, a motion passed to allocate up to \$500 expense money as needed for speakers in this Symposium. Brief discussions were held regarding Sectional activities and policies about free registration for special invited speakers. Vice Presidents were instructed regarding checking out their rooms before sessions, types of equipment they needed to provide (projectors, audio visual equipment, etc.). A general discussion was held regarding local arrangements in the hotel for meeting rooms, problems with noise in the halls, arrangements for breakfast and luncheons, and hospitality rooms. Final details and agendas for General Sessions, Awards and Annual Business Meetings were reviewed by the Chairman, President, and Secretary. Following discussion, Dr. Harry Ford and Dr. James Montelaro were elected new Honorary Members by secret ballot.

These are motions passed and important discussions at the Executive Committee Meeting held November 3 at the Holiday Inn, Tampa.

Barrett presented a report on printing contract proposals. Following discussion a motion passed to award the printing contract to E. O. Painter Printing Company. Reed reported for the Site Selection Committee. He indicated a contract had been signed for the Orlando Hyatt for the Annual

Meeting in 1987. Campbell reported for the committee to study page overage charges. The committee indicated current page charges appear to be adequate but we need to keep careful account during the next year or two to be sure they cover the cost of printing additional pages. Berry presented the wording for the suggested change in Editorial Policy as follows: Change the heading under Publication Policy Statement, Section B to read "Conditions for publication of previously released information." 1. The Society places preference and publication priority on original, unpublished matter. However, information published elsewhere and/or submitted to other journals, or news media may be published in the Proceedings provided a) the subject matter is Florida oriented, b) the previous material is properly cited or referenced, and c) the manuscript is not a verbatim copy of the previous material but has been edited, focused, and oriented toward Florida growers and the horticultural industry and their potential applications. A motion passed to approve this change in policy. A discussion was held regarding the remaining details of the 1985 Meeting, the details of the General Session, Annual Business Meeting, and Awards Presentations. A report was received from J. B. Pratt regarding the functions of the Centennial Committee and soliciting ideas for the Centennial Meeting. A discussion was held regarding a suggestion of an award for the best graduate student paper at the Annual Meeting. Chairman Campbell appointed a committee to study this possibility and make a recommendation to the Executive Committee. Berry presented a proposal for a horticultural exchange program with the Republic of China sometime during the next year. Chairman Campbell appointed a committee to study this proposal and make a recommendation to the Executive Committee.

Respectfully submitted,
Robert E. Berry
Secretary

FLORIDA STATE HORTICULTURAL SOCIETY MEMBERSHIP REPORT December 31, 1985

	Paid	Unpaid	Total
New Members			
Patron	3		3
Annual	137		137
Student	28		28
Colleges and Libraries	1		1
Out-of-Country	19		19
Old Members			
Patron	31	9	40
Annual	1,032	230	1,262
Student	11	18	29
Colleges and Libraries	15	33	48
Out-of-Country	60	72	132
Honorary Members			35
Total	1,337	362	1,734

Respectfully submitted,
ROBERT E. BERRY,
Secretary

FLORIDA STATE HORTICULTURAL SOCIETY FINANCIAL REPORT December 31, 1985

RECEIPTS:

Balance on hand January 1, 1985		\$23,721.48
Membership Dues:		
1985 Patron	\$ 3,600.00	
1985 Annual	17,775.00	
1985 Student	210.00	
1984 Dues	4,425.00	
1986 Dues	1,315.00	
Index, Proceedings and Misc.	3,982.04	
Time Cert. Interest	3,688.80	
Checking Interest	911.13	
Page Overage, Vol. 96	75.00	
Page Overage, Vol. 97	9,243.75	
Registration Fees	10,858.00	
Spouse Registration	676.00	
Student Registration	293.00	
		<u>\$57,032.72</u>
		<u>\$80,754.20</u>

DISBURSEMENTS:

Proceedings, 1984	\$25,313.55
Sta., Stamps & Printing	5,093.49
Purchase of Time Cert.	10,000.00
Convention, 1985	8,459.94
Clerk Hire	9,662.30
Audit, 1984	600.00
Fla. Agric. Council Dues (1985 and 1986)	200.00
Miscellaneous	2,803.08
Awards of the Society	1,050.00
Student Awards	2,925.00
Refunds	24.00
	\$66,131.36
Balance as of January 1, 1986	
	\$14,622.84

Respectfully submitted,
R. R. REED
Treasurer

MINUTES OF THE 98TH ANNUAL BUSINESS MEETING FLORIDA STATE HORTICULTURAL SOCIETY November 4, 1985 Tampa, Florida

The meeting was called to order by President Fred Bistline at 4:15 p.m. The Secretary moved the adoption of the minutes of the 97th Annual Meeting as published in the Society Proceedings Volume 97, page 378. The motion was seconded and carried.

The Secretary read the report of the Executive Committee for 1985 reviewing major points of discussion and motions carried. The Secretary moved the adoption of the report of the Executive Committee, the motion was seconded and carried. The report is published elsewhere in the Proceedings.

Treasurer Reed presented his report and moved its adoption. The motion was seconded and carried. The Treasurer's Report as brought up-to-date through December 31, 1985, is printed elsewhere in the Proceedings.

The Membership Report was presented by the Secretary who moved its approval. The motion was seconded and carried. The report, as up-dated through December 31, 1985, is printed elsewhere in the Proceedings.

The Editor, Dr. James Barrett, gave his report. He discussed editing policies and procedures and problems arising during the year concerning manuscripts and printing of the Proceedings. He indicated the new Editorial Committee comprised of Associate Editors for each section had been changed slightly, but was continuing to function well. He indicated his appreciation to all for cooperation in submitting manuscripts and changing manuscripts as needed.

Nominating Committee Chairman Dr. Don Hutchinson presented the following slate of nominees for officers in the Society for 1986:

President-Alfred H. Krezdorn.
Chairman-Fred W. Bistline.
Secretary-R. E. Berry.
Treasurer-R. R. Reed.
Editor-James Barrett.
Program Coordinator-T. J. Sheehan.

Vice-Presidents:

Citrus-Mike Taylor.
Garden & Landscape-Derek Burch.
Handling & Processing-David Hall.
Krome Memorial Institute-Mary Lamberts.
Ornamentals-Timothy Broschat.
Vegetable-Ray Volin.

Executive Committee Members-at-Large:

one year-Sydney Park-Brown.
2 years-Hugh English.

The President called for nominations from the floor. No nominations were received. A motion was received that the nominations be closed and the Secretary instructed to cast a unanimous ballot for those names submitted by the Nominating Committee. The motion was seconded from the floor and carried unanimously. There being no further business the meeting adjourned at 5 p.m.

Respectfully submitted,
ROBERT E. BERRY, Secretary

**FLORIDA STATE HORTICULTURAL SOCIETY
MEMBERSHIP LIST
1985**

PATRON

A & L Southern Agricultural Labs, 6861 S.W. 45 St., Fort Lauderdale 33314
Adams Citrus Nursery, Inc., P. O. Box 1505, Haines City 33844
Berry, Jack M. Grove Corp., P. O. Box 5609, Winter Haven 33883
Brooks, J. R. & Son, Inc., P. O. Drawer 9, Homestead 33030
Callery-Judge Groves, P. O. Box 810, Loxahatchee 33470
Coca-Cola Company Foods Division, P. O. Box 2245, Auburndale 33823
Duda, A. & Sons, Inc., P. O. Box 257, Oviedo 32765
duPont, E. I. de Nemours & Co., 6 Edwards Shores, Haines City 33844
Engelman, Hermann Greenhouses, Inc., P. O. Box 1227, Apopka 32702
Farm Credit Services of Florida
Florida Celery Exchange, P. O. Box 2007, Orlando 32814
Florida Citrus Processors Assn., P. O. Box 780, Winter Haven 33882
Florida Citrus Production Managers Assn., P. O. Drawer 2036, Haines City 33844
Florida Favorite Fertilizer, Inc., P. O. Box 710, Lakeland 33802
Florida Fruit & Vegetable Assn., P. O. Box 20155, Orlando 32814
Florida Mango Forum, P. O. Box 970371, Miami 33197
Green Cay Farms, Route 1, Box 331-B, Boynton Beach 33437

Griffin, B. H., Jr., P. O. Box 368, Frostproof 33843
Grove Services Co., P. O. Box 1310, Homestead 33030
Hunt, G. Ellis, P. O. Box 631, Lake Wales 33853
Hutchinson Citrus Nursery, 211 HCN Dr., Sebring 33870-9193
IMC Fertilizer Group, Rainbow Operations, P. O. Box 467, Mulberry 33860
Kendall, Harold E., South Florida Growers Assn., P. O. Box 458, Goulds 33170
Manatee Fruit Co., P. O. Box 128, Palmetto 33561
Polk County Fertilizer Co., P. O. Box 366, Haines City 33844
Rare Fruit Council International, Inc., 1221 Sorolla Ave., Coral Gables 33134
Riverfront Groves, Inc., P. O. Box 1148, Vero Beach 32961
Seald-Sweet Growers, Inc., P. O. Box 2349, Tampa 33601
Snively, Harvey B., Jr., Snively Enterprises, P. O. Box 99, Lake Hamilton 33851
South Bay Growers, South Bay 33493
Southern Citrus Nurseries, Inc., Container Tree Div., P. O. Box 359, Dundee 33838
Tennessee Chemical Co., 3475 Lenox Road, N.E., Suite 670, Atlanta, Georgia 30326
Uddike, John, Jr., Alcoma Packing Co., Inc., P. O. Box 231, Lake Wales 33853
Ward's Nursery, Inc., P. O. Box 850, Avon Park 33825

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Beasly, Paul, Superior Fertilizer Co., 14225 Lake Magdalene Blvd., Tampa 33618
Beasley, B. R., Coca-Cola Co. Foods Div., 2060 Kirkland Rd., Auburndale 33823
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Benton, James M., Jr., 800 Calhoun Ave., Greenwood, South Carolina 29646-1602
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Bice, John R., Brogden Co., 1441 W. Second St., Pomona, California 91766
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Bryan, Philip R., Lake Garfield Nurseries Co., P. O. Box 154, Bartow 33830
Bryan, William M., P. O. Box 609, Lake Wales 33859-0609
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Buffaloe, David F., 2212 Aversboro Rd., Garner, North Carolina 27529
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Burditt, Arthur K., Jr., U. S. Dept. of Agric., 3706 Nob Hill Blvd., Yakima, Washington 98902
*Burgis, Donald S., 410 - 15 St., W., Bradenton 33505
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Burns, Reed E., P. O. Box 562153, Miami 33256
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Bush, Richard, 6981 S.W. 9 St., Plantation 33317-4240
Buslig, Bela S., Fla. Dept. of Citrus, P. O. Box 1909, Winter Haven 33883
Button, Peter A., 30975 S.W. 214 Ave., Homestead 33030
Byrnes, Robert L., Trail Ridge Nursery, P. O. Box 967, Keystone Heights 32656
Calvert, David V., U. of Fla., IFAS-ARC, P. O. Box 248, Fort Pierce 33454
Cameron, Michael S., Route 6, Box 350, Plant City 33566
Campbell, Beverly A., 15301 S.W. 269 Terrace, Homestead 33032
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