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OF THE
NINETY-FIFTH ANNUAL MEETING
of the
FLORIDA STATE
HORTICULTURAL SOCIETY

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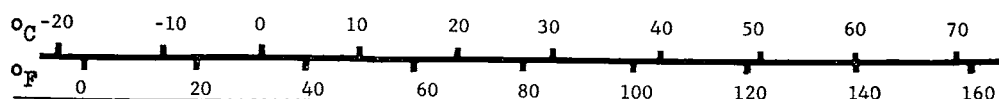
CONVERSIONS: U.S. & METRIC MEASURES

U.S. Units ^z	Metric Equivalents	Conversion Factors Metric to U.S.
<u>Length or Thickness</u>		
1 mile	= 1.6093 kilometers (km)	X 0.6214
1 yard	= 0.9144 meters (m)	X 1.0936
1 foot (ft)	= 0.3048 "	X 3.2808
1 inch (in)	= 2.5400 centimeters (cm)	X 0.3937
1 mil (1/1000 in)	= 0.0254 millimeters (mm)	X 39.3700
<u>Area</u>		
1 square inch (in ²)	= 6.4516 square centimeters (cm ²)	X 0.1550
1 square yard (yd ²)	= 0.8361 square meters (m ²)	X 1.1960
1 acre	= 0.4047 hectares (ha)	X 2.4710
1 section (mile ²)	= 258.988 "	X 0.0039
<u>Volume or Capacity</u>		
1 pint	= 0.4732 liters (ℓ)	X 2.1133
1 gallon (gal)	= 3.7853 "	X 0.2642
1 bushel (bu)	= 35.2381 "	X 0.0284
1 acre-inch	= 102.7938 cubic meters (m ³)	X 0.0097
1 Fla. field box (4,800 cu ins)	= 0.7866 hectoliters (hℓ)	X 1.2713
1 Fla. citrus carton (4/5 bu)	= 0.2822 "	X 3.5436
<u>Weight</u>		
1 ounce (oz)	= 28.3495 grams (g)	X 0.0353
1 pound (lb)	= 0.4536 kilograms (kg)	X 2.2046
1 hundredweight (cwt)	= 45.3592 "	X 0.0220
1 ton	= 0.9072 metric tonnes	X 1.1022
<u>Rate or Yield</u>		
1 grain/pound (gr/lb)	= 0.1429 grams/kilogram (g/kg)	X 7.0000
1 pound/acre (lb/acre)	= 1.1208 kilogram/hectare (kg/ha)	X 0.8922
1 ton/acre	= 2.2417 metric tonnes/hectare	X 0.4461
1 gallon/acre (gal/acre)	= 9.346 liters/hectare (ℓ/ha)	X 0.1070
1 Fla. field box/acre	= 1.9437 hectoliters/hectare (hℓ/ha)	X 0.5162
1 bushel/acre (bu/acre)	= 0.8705 "	X 1.1488
1 pound/100 gallons (lb/100 gal)	= 1.1983 grams/liter (g/ℓ)	X 0.8345
1 cubic foot/minute (ft ³ /min)	= 0.4720 liters/second (ℓ/sec)	X 2.1186
<u>Energy, Light, & Pressure</u>		
1 horsepower (HP)	= 0.7457 kilowatts (kw)	X 1.3410
1 foot candle (ft-cp)	= 10.7639 lux	X 0.0929
1 pound/square inch (psi)	= 70.3069 grams/cm ²	X 0.0142
1 British Thermal Unit (BTU)	= 0.2530 kilogram calories (kg-cal)	X 3.9526

Temperature

$$\text{Fahrenheit} = \frac{(\text{C} \times 9)}{5} + 32$$

$$\text{Celsius (Centigrade)} = \frac{(\text{F} - 32) \times 5}{9}$$



^zNote that these are United States measures which often differ from British, eg., the ton, hundredweight, bushel, gallon, etc.

EDITORIAL POLICY

The Society follows the editorial policies of the American Society for Horticultural Science. The only exceptions to this relate to the need to serve growers, amateur members, and others for whom the more cryptic abbreviations, purely metric measures, etc. may be an inconvenience.

Proceedings

of the

FLORIDA STATE

Horticultural Society

1982

VOLUME LXXXXV

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AWARDS OF THE SOCIETY

Presidential Gold Medal Award

Carl W. Campbell

Award granted to Carl W. Campbell, Agricultural Research and Education Center, University of Florida Institute of Food and Agricultural Sciences, Homestead, Florida, for having contributed most to Florida horticulture through work published in the Proceedings of the Florida State Horticultural Society over the preceding six-year period in the Krome Memorial Section.



Awards for Outstanding Papers

Awards for outstanding papers in Volume 94 of the Proceedings of the Florida State Horticultural Society presented at the annual meeting of the Society (November 2, 1982) by President Roger Young.

Citrus Section

D. T. Kaplan and J. H. O'Bannon, "Evaluation and nature of citrus nematode resistance in Swingle citrumelo".

Garden and Landscape Section

D. G. Burch, "The propagation of cycads—A game for young people?".

Handling and Processing Section

M. A. Ismail, J. O. Craig and W. M. Miller, "Regulatory actions affecting the use of ethylene dibromide in quarantine fumigation of citrus fruits".

Krome Memorial Section

W. C. Adlerz and D. L. Hopkins, "Grape insects and diseases in Florida".

Ornamental Section

W. H. Bodnaruk, Jr., T. W. Mills and D. L. Ingram, "Response of four foliage plants to heated soil and reduced air temperatures".

Vegetable Section

B. W. Falk and V. L. Guzman, "A virus as the causal agent of spring yellows of lettuce and escarole".

President's Industry Award

D. J. Hall, "Innovations in citrus waxing—An overview".

Council Memorial Tomato Research Award

D. D. Gull, "Utilization of the flow through system for ripening initiation of tomato".

Since 1892, one of the major roles of the Society has been providing, through its Proceedings, a medium for disseminating new and needed information among Florida horticulturists. Because Florida horticulture is often so different from that of the rest of the country, the Proceedings often

provide the only workable channel for such information. In 1968, the Presidential Gold Medal Award was instituted to honor authors notable for continued and useful contributions to these Proceedings. Since then, gold medal winners have been:

R. C. J. Koo
R. A. Conover
J. R. Orsenigo
W. E. Waters

W. Grierson
Paul F. Smith
T. W. Young
James W. Strobel

C. A. Conover
A. H. Rouse
J. O. Whiteside
C. R. Barmore

J. F. Morton
S. J. Locascio
C. A. Conover
J. H. Bruemmer

W. S. Castle

Presidents of the Florida State Horticultural Society from 1888 to Present

<i>Year</i>	<i>Presidents</i>		
1888-1896	Dudley W. Adams	1959	S. John Lynch
1897-1904	George L. Tabor	1960	W. L. Thompson
1905-1906	C. T. McCarty	1961	Ruth S. Wedgworth
1907-1908	P. H. Rolfs	1962	John H. Logan
1909	William C. Richardson	1963	Herman J. Reitz
1910-1922	H. H. Hume	1964	Willard M. Fifield
1923-1929	L. B. Skinner	1965	Ernest L. Spencer
1930-1936	John S. Taylor	1966	Arthur F. Mathias
1937	C. W. Lyons	1967	Ed H. Price, Jr.
1938-1940	Charles I. Brooks	1968	J. R. Beckenbach
1941	T. Ralph Robinson	1969	G. M. Talbott
1942	Henry C. Henricksen	1970	F. E. Gardner
1943-1947	Frank M. O'Byrne	1971	O. R. Minton
1948	William F. Ward	1972	R. A. Dennison
1949	Frank Stirling	1973	B. E. Colburn
1950	Leo H. Wilson	1974	G. G. Norman
1951	G. Dexter Sloan	1975	Leon Miller
1952	Frank L. Holland	1976	John W. Sites
1953	R. S. Edsall	1977	J. B. Pratt
1954	M. U. Mounts	1978	R. R. Reed
1955	H. A. Thullbery	1979	J. F. Morton
1956	R. A. Carlton	1980	C. Wayne Hawkins
1957	R. E. Norris	1981	W. Grierson
1958	A. F. Camp	1982	Roger Young

HONORARY MEMBERS*

Anderson, J. B.	1922	Holland, Spessard L.	1945	Reitz, Herman J.	1970
Beckenbach, J. R.	1967	Hoyt, Avery S.	1950	Reitz, J. Wayne	1955
Berckmans, P. J.	1893	Hoyt, R. D.	1914	Robinson, T. Ralph	1942
Berger, E. W.	1940	Hubbard, E. S.	1922	Rolfs, P. H.	1921
Blackmon, G. H.	1964	Hume, H. Harold	1927	Rolfs, Mrs. P. H.	1921
Bosanquet, L. P.	1924	Jamison, F. S.	1962	Ruehle, George D.	1958
Brown, Arthur C.	1952	Johnson, Warren O.	1965	Sharpe, Ralph H.	1974
Burgis, Donald S.	1980	Koo, R. C. J.	1978	Shaw, Miss Eleanor G.	1927
Camp, A. F.	1956	Krezdorn, A. H.	1979	Singleton, Gary	1962
Carlton, R. A.	1962	Krome, William H.	1973	Skinner, L. B.	1931
Chase, J. C.	1939	Krome, William J.	1927	Sloan, G. Dexter	1964
Chase, S. O.	1939	Krome, Mrs. Isabelle B.	1960	Smith, Paul F.	1972
Clayton, H. G.	1956	Lawrence, Fred P.	1973	Spencer, E. L.	1962
Colburn, Burt	1970	Lipsey, L. W.	1924	Steffani, C. H.	1958
Commander, C. C.	1952	Logan, J. H.	1965	Stevens, H. B.	1934
Cooper, W. C.	1981	Lynch, S. John	1975	Swingle, W. T.	1941
Dickey, R. D.	1968	MacDowell, Louis G.	1968	Taber, George L.	1914
Edsal, R. S.	1967	Magie, Robert O.	1977	Tait, W. L.	1962
Fairchild, David	1922	Mathias, A. F.	1972	Talbott, George M.	1980
Fifield, Willard M.	1955	Mayo, Nathan	1940	Tenny, Lloyd S.	1956
Flagler, H. M.	1903	Menninger, Edwin A.	1964	Thompson, Ralph P.	1962
Floyd, Bayard F.	1944	Miller, Leon W.	1972	Thompson, W. L.	1962
Floyd, W. L.	1939	Miller, Ralph L.	1972	Thullbery, Howard A.	1962
Forsee, W. T., Jr.	1973	Mounts, M. V.	1958	Veldhuis, M. K.	1972
Gaitskill, S. H.	1909	Mowry, Harold	1950	Ward, W. F.	1962
Gardner, Frank E.	1967	Newell, Wilmon	1940	Webber, H. J.	1941
Garrett, Charles A.	1957	Norman, Gerald G.	1967	Wedgeworth, Ruth S.	1965
Grierson, William	1979	Norris, Robert E.	1962	Wenzel, F. W.	1973
Harding, Paul L.	1968	O'Byrne, Frank M.	1962	Wilson, Lorenzo A.	1934
Hart, W. S.	1909	Painter, E. O.	1909	Winston, J. R.	1960
Hastings, H. G.	1939	Peterson, J. Hardin	1950	Wolfe, H. S.	1964
Hayden, Mrs. Florence P.	1934	Pratt, J. B.	1980	Young, T. W.	1978
Hayslip, Norman C.	1981	Redmond, D.	1893	Yothers, W. W.	1955
Henrickson, H. C.	1939	Reed, R. R.	1970	Ziegler, L. W.	1976
Holland, Frank L.	1962				

*Date year award made.



R. H. YOUNG
Orlando
PRESIDENT OF THE SOCIETY—1982

PRESIDENTIAL ADDRESS

R. H. YOUNG
*U.S. Department of Agriculture,
Agricultural Research Service,
2120 Camden Road, Orlando, FL 32803*

Good morning, Ladies and Gentlemen, and welcome to the 95th Annual Florida State Horticultural Society Meeting. It is indeed a pleasure for me, as President, to accept this gravel and to begin the meeting officially. I trust that you all have enjoyed the fine hospitality of the Carillon and that your attitudes are fully adjusted to participate in the activities ahead. We welcome all of you that are here, but we're disappointed that more of our family from the state agencies could not attend.

This year's program promises to be the best ever. Each of the six sections has a full complement of 25 papers and two excellent symposia are being offered. One of these, on the recent freezes, is presented in the Citrus Section, and the second, on commodity treatment, is presented in the Post-harvest and Handling Section. We urge you to attend both sessions as there are excellent discussions planned.

It goes without saying to this audience that agriculture is the foundation of this country, and our number 1 industry in Florida. Maintaining this position requires a unique marriage among researchers, producers, packers, and processors, support agri-businesses, and the wholesalers and retailers. An important part of the adhesive that binds this marriage is the process of communication. The Florida State Horticultural Society serves an important function in this communication process.

This society began in 1888 and has steadily increased in size to the current membership of approximately 2000. Our annual meetings and the Proceedings have steadily improved in quality and content, and command the attention of horticulturists worldwide. They serve as important resources for user-groups interested in horticultural research. The success of this society can be attributed to you and the working membership. During these times of high costs of doing business and limited budgets and resources, maintaining and improving our society's strengths, functions, and visibility take on added significance. And, from my vantage point, we are meeting the challenge.

Each year the membership elects a new board of directors who conduct the business of the society. This is essentially handled through elected officers and various working committees. Each year the new president appoints 14 committees, and the board chairman, 5. Among these committees are 9 awards committees, the nominating committee, the student affairs committee, the local arrangements committee, the sponsors committee, and a number of others. They all serve an important function, and their success depends on each individual member's willingness to serve the society.

This afternoon at 4:30, the sectional business meetings will be held to elect next year's vice presidents and to transact other appropriate business. Then, Tuesday at 4:15 p.m., the annual business meeting will be held and next year's officers will be elected. I urge you all to attend and participate in the business of the society.

I would also like to call your attention to the work of the local arrangements committee. They serve a very important function by arranging all the details for meeting rooms, displays, ladies' programs, and the banquet. This year's local arrangements chairperson is Dr. Julia Morton, who has done a superlative job. I'd like Julia to stand and be recognized.

Incidentally, be sure to attend the banquet Tuesday evening. The entertainment will be the University of Miami Singers, which promises to be outstanding.

As the feature portion of my address this morning, I would like to recognize one individual who has made outstanding contributions to the citrus industry and to this society. His scientific achievements have brought him "best paper" awards in handling and processing in 1959 and 1975, and in the rome section in 1965 and 1971. He has published 44 papers in the Proceedings (I think I counted them all), was awarded the Presidential Gold Medal in 1969, and Honorary Membership in 1979.

In one of the toughest jobs in the society, he served as editor from 1972-1979, and because of his leadership and perseverance, the quality of the Proceedings was greatly improved. He has served on many committees, is immediate past president of this society, and our current board chairman. He's an outstanding example of the dedicated leadership that has made our society so successful. Ladies and gentlemen, would you join me in recognizing an outstanding scientist, a leader in this society, and a fine gentleman, "Mr. Packinghouse"—Dr. William "Bill" Grierson.

Finally, I'd like to express my appreciation for this opportunity to serve as your president this year. It has been a challenging and rewarding experience; and, particularly, I would like to thank all the board members and the committee members. They have worked hard and well together, and the fruits of their labors will be evidenced not only in the quality of this year's meeting, but in the continuing role this society plays in enhancing horticulture in Florida.