

1990-Annual Report

·

Table of Contents

		_
Chairman's Message		3
Board of Trustees		
Financial Report		6
1990 Highlights		
Two Major Bequests Received	8	
Durio & Hook Retire	12	
Century Dinner XIV		
Simmons Honored	15	
Tributes		16
Corporate Tributes	16	
Living Tributes	17	
Memorial Tributes	18	
Contributor Recognition		20
Special Awards	20	
Builders	22	
Benefactors	23	
Patrons	24	
Founders	25	
Protectors	26	
Guardians	27	
Vanguards	28	
Sentinels	30	
Sponsors	32	
Givers	32	
Contributors Through FTD	33	
Endowment Club		35
Desirate and Cropts		36
Projects and Grants	 36	00
1990 Research Projects	40	
1990 Education Projects	41	
Special Projects		49
Mosmiller Scholar Program		<u>TZ</u>
Total Grants 1961-1990		43

The American Floral Endowment is a non-profit corporation established to secure contributions for funding research and education programs relevant to the floriculture and environmental horticulture industries, the results of which will benefit the general public.

American Floral Endowment 37 Camelot Drive Edwardsville, Illinois 62025 USA 618-692-0045 FAX 618-692-4045

 	 	•

Chairman's Message

The public is becoming increasingly aware of and concerned about the environment and most every aspect of living in our world today. In this connection, sound research and education programs are essential to the quality and type of service the floral industry is expected to render to society.

Through the support of those listed in this publication we are making substantial programmatic progress. On behalf of the Board of Trustees it is with a deep sense of pride that I express thanks and appreciation to each and every one. At the same time, I wish to acknowledge the contributions of the Board of Trustees. Their generosity and dedication are unsurpassed in the floral industry.



Robert C. Dewey Chairman

American Floral Endowment... A wise investment.

Board of Trustees 1990-91



Chairman Robert C. Dewey Pennock Company (Ret.) Green Lane, Pennsylvania



Vice Chairman/Projects & Grants Eiichi Yoshida Sunnyside Nurseries, Inc. Hayward, California



Vice Chairman/Fund Raising Delmar E. Demaree, Jr. Syndicate Sales, Inc. Kokomo, Indiana



Treasurer Kenneth R. Royer Royer's Flowers, Inc. Lebanon, Pennsylvania



Secretary
Pete Garcia
Pete Garcia Company
Atlanta, Georgia



Chairman/Mosmiller Scholar Program Don Flowers Don Flowers Florist, Inc. Randallstown, Maryland

Board of Trustees 1990-91



Todd L. Bachman Bachman's, Inc. Minneapolis, Minnesota



Dr. Carl F. Gortzig Cornell University Ithaca, New York



James T. Irwin Irwin Greenhouses, Inc. Canyon, Texas



Ole Nissen Sunshine State Carnations, Inc. Hobe Sound, Florida



Jacob Van Namen Van's, Inc. Alsip, Illinois



Donald E. Weder Highland Supply Corporation Highland, Illinois



Ex Officio J. Sten Crissey Crissey, Inc. Seattle, Washington

Trustees Emeriti

Felix Ankele John E. Dramm John Henry Dudley O. Ben Haley, Jr. Mabel M. Simmons



Executive Vice President Betty Abrams Edwardsville, Illinois

Financial Report 1989-90

Statement of Assets		
Cash and Short Term Investments	6/30/90 \$ 715,354,06	6/30/89 \$ 246,666.55
U.S. Government & Agency Bonds (Market) Corporate Bonds (Market)	1,540,727.50	1,944,302.75
Common Stocks (Market)	329,848.50 1,836,425.00	289,127.50 1,692,737.50
Total Assets	\$4,422,355.06	\$4,172,834.30
Earnings & Disbursements		
Balance Income:	\$ 135,509.32	\$ 186,339.22
Dividends	55,210.88	45,410.50
Interest Designated Contributions	211,822.10	218,466.14
Allocation of Capital Gains	201,026.62 22,942.98	105,779.00 18,291.00
Total	\$ 626,502.90	\$ 574,285.86
Disbursements:		
Bank Management Fees	\$ 31,278.81	\$ 14,055.22
Grants	424,484.58	424,721.32
Balance	\$ 170,739.51	\$ 135,509.32

Treasurer's Comments

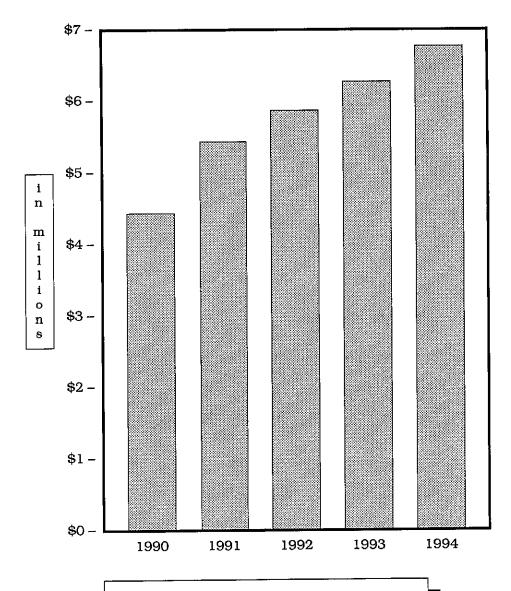
The Endowment took some important steps this year in regard to financial philosophy and management. A change was made in the investment advisor. Tom Johnson Investment Management, Inc., Oklahoma City, Oklahoma, was selected as a result of excellent performance over the last ten years.

The Trustees are confident this new management will produce improved returns on the contributed funds that generate the income used for research. The Trustees have also adopted an altered policy that will make available an increased share of investment gains for funding of projects.

Shortly after the end of the fiscal year (June 1990), the Endowment received the largest single contribution in its history which lifted the total funds over the \$5,000,000 mark. Andrew Darbee, who passed away during 1990, bequeathed \$500,000 to the Endowment.

KENNETH R. ROYER Treasurer





Corpus Projection

1990 Highlights

Two Major Bequests Received

The Endowment was the recipient of two sizeable bequests during 1990: \$25,000 from Fred C. Gloeckner, and \$500,000 from Andrew L. Darbee. It is with special thanks and appreciation that these generous gifts are acknowledged herein.

Andrew Darbee grew up in the floral industry. His mother, Annie Gooch Darbee, grew violets in San Leandro beginning in the late 1800's. Just before the turn of the century, she transferred the beds to the east bay area of San Francisco where she expanded her production to include lilies and other bulb crops. Her crops were sold locally as well as shipped across the U.S. and into Mexico and Canada.

Mrs. Darbee started Darbee's Florist on Hyde Street in San Francisco in the early 1900's. Her husband, Robert E. Darbee, owned an oyster bar and grill in the bay area. The 1906



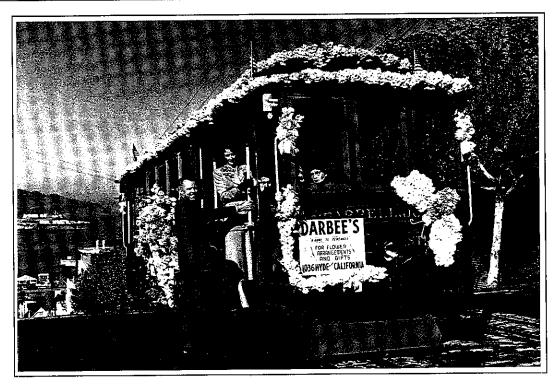
ANDREW L. DARBEE 1907-1990

earthquake destroyed the oyster beds and subsequently his business, and he began work with Darbee's Florist.

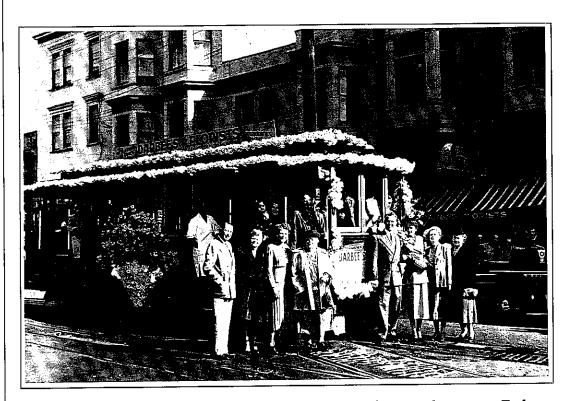
Following his university training, Andrew Darbee entered the business with his mother and father. The business ultimately included considerable bulb production in the state of Oregon. Under new ownership production continues in Oregon, but Darbee's Florist was closed in or around 1974.

Andrew Darbee is survived by his third wife, Mary Eleanor, who resides in Derby, England. He had no children.

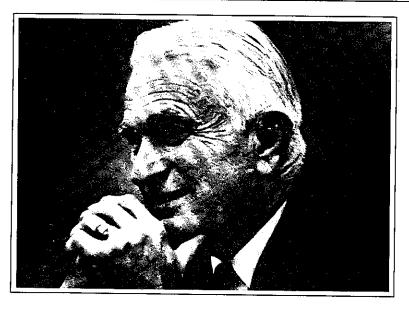
Andrew Darbee's will stated that the \$500,000 bequest was left to the Endowment "to be used for its general purposes (research and education) in memory of his mother Annie H. Gooch and father Robert Eugene Darbee." Tributes have been so established within the framework of the Endowment.



Andrew Darbee entering a trolley car decorated by Darbee's Florists, 1949.



Andrew's mother, Annie H. Darbee, standing in front with a cane. To her left is Andrew. Photo taken on Hyde Street in front of Darbee's Florists, 1949.



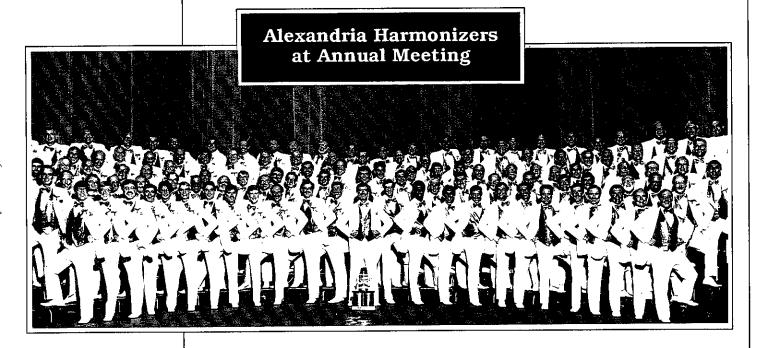
FRED C. GLOECKNER 1902-1990

red Gloeckner's introduction to horticulture came from his father who worked in the greenhouse industry in Germany before immigrating to the U.S. in the early 1900's to work for a large seed company. As a young teenager, Fred worked for the Conard-Pyle Company in West Grove, Pennsylvania, during the summer. When he was 16 he travelled to California to work for the Bodger Seed Company followed by some time with the Brown Bulb Farm Ranch. At 19, and at the height of the Depression, Fred returned to the East as a salesman for the American Bulb Company.

In 1934, Fred, his father and Leonard Seiger formed the Fred C. Gloeckner Co., Inc. of New York. A distributor of seeds, bulbs, rooted and unrooted cuttings and supplies, they not only have sales all across the U.S. but in Europe, Japan, India, New Zealand and Central and South America.

Fred always had a high regard for research and education. At about the same time the American Floral Endowment was being conceived by several active industrymen, Fred founded the Fred C. Gloeckner Foundation (1961) to fund research. While most of his resources went to his foundation, he was also generous with the Endowment. His \$25,000 bequest is testimony to this support.

Much has been written about Fred, his professional as well as personal achievements. They have been extraordinary. He touched many lives along the way, and his presence will be remembered with love and admiration by many for a very long time.



At the Endowment's Annual Meeting held during the SAF convention in Washington, D.C., the international champion Alexandria Harmonizers performed. Their stature in the realm of barbershop chorus singing has evolved since 1948. In 1986 the group captured the most coveted of honors - the International Chorus Championship. Only able to compete every three years, they won again in 1989.

Durio & Hook Retire



JAMES E. DURIO JIM DURIO FLORIST, INC. OPELOUSAS, LOUISIANA



DONALD E. HOOKPITTSBURGH CUT FLOWER COMPANY
PITTSBURGH, PENNSYLVANIA

Elected in 1980, Don Hook served the Endowment in many capacities: Secretary, Vice Chairman of Fund Raising and Chairman. During his tenure, he also chaired the 1983 Phone-athon which was one of the most successful fund raisers ever held.

Jim Durio was elected in 1983. He chaired the Endowment Mosmiller Scholar Program Committee for several years. He was the first chairman of the National Agricultural Library project, and chaired a very successful Century Dinner in New Orleans.

Both Don and Jim served the Endowment and the floral industry with a dedicated sense of fairness, objectivity and professionalism. Their service will long be remembered and forever appreciated.

Dr. Carl Gortzig, Cornell University, and Jacob Van Namen, Van's Inc., were elected to fill the vacancies created by Don and Jim's retirement.



Century Dinner XIV A Hit

Held in the ballroom of the historic Willard Hotel, Washington, D.C., July 25, 1990, Century Dinner XIV was a major social and financial success. Nearly 250 people attended the dinner, held in conjunction with the SAF convention. Chaired by Charles F. Kremp 3rd, Willow Grove, Pennsylvania, more than \$25,000 was raised to support the Endowment office.

CHARLES F. KREMP 3RD
CENTURY DINNER XIV CHAIRMAN

Underwriting much of the evening's events were the Hosts who contributed \$2,000 and the Sponsors who contributed \$1,000. As with most previous dinners, individual tickets were \$100 each.

Particular thanks and appreciation are extended to the following:

Hosts

Florists' Transworld Delivery Association Southfield, Michigan

Pete Garcia Company Atlanta, Georgia

Manatee Fruit Company Palmetto, Florida

Pennock Company Philadelphia, Pennsylvania

Redbook Florist Services Paragould, Arkansas

Van's, Inc. Alsip, Illinois Sponsors

American Floral Services, Inc. Oklahoma City, Oklahoma Colombia Flower Council Miami, Florida Crisa Corporation Plano, Texas Delaware Valley Wholesale Florist Sewell, New Jersey Paul Ecke Poinsettias Encinitas, California Florafax International, Inc. Tulsa, Oklahoma Floral & Nursery Times Wilmette, Illinois Floralife, Inc. Burr Ridge, Illinois Florists' Mutual Insurance Company Edwardsville, Illinois The John Henry Company Lansing, Michigan Highland Supply Corporation Highland, Illinois Southern Floral Company Houston, Texas Sunnyside Nurseries, Inc. Hayward, California Syndicate Sales, Inc. Kokomo, Indiana Teleflora, Inc. Los Angeles, California

Carpinteria, California Euser Greenhouses Wheat Ridge, Colorado Glad-A-Way Gardens Union City, California The Hiawatha Corporation Shelton, Washington Highland Supply Corporation Highland, Illinois Henry Mazzoni Farms Ltd. Vineland, New Jersey Henry Meyer Cut Flowers Santa Barbara, California Pajaro Valley Flower Shippers Watsonville, California Pittsburgh Cut Flower Co. Pittsburgh, Pennsylvania Smithers Oasis Kent, Ohio WFR, Inc. Zellwood, Florida

Product Contributors

Brand Flowers

Special thanks are also extended to the Pennock Company, Springfield, Virginia, for serving as a drop point to accommodate the products designated for the Dinner.

Washington Bulb Company

Westland Floral

Mt. Vernon, Washington

Carpinteria, California

Some of the Dinner guests (photos provided by Eric Benjamin, Flower News)









To prepare the decorations, Chairman Kremp brought two of his designers to Washington, D.C. for two days. They were assisted by Helen and Ira Bitner, Jim Carey and Hearn Callaway.

Former Endowment Chairman, Felix Ankele, provided the evening's invocation, and Dr. Terril Nell, University of Florida, presented an overview of "why the Endowment is important" to the floral industry. The Monumental Brass Quintet performed following dinner.

Simmons Honored

Former Endowment Chairman Mabel Simmons was presented the prestigious Leland T. Kintzele Award during the Wholesale Florists and Florist Suppliers of America annual meeting in March, 1990. The entire Endowment Board of Trustees was on hand to honor Mabel and share in this tribute.



Mabel Simmons and Endowment Board of Trustees - 1990

Tributes

Tributes are available to honor individuals, families and companies. Tributes provide a tangible way of expressing care, saying thank you for a friendship or acknowledging a customer.

A minimum contribution to the Endowment of \$500 is required to establish a tribute. Once established, additional contributions in any amount may be received. The family or corporate entity is always notified.

Corporate Tributes

Corporate Tributes are designed to provide a vehicle for recognition of floral industry firms and corporations. Since its inception in 1986, the following organizations have been so recognized:

Bay City Flower Co. Half Moon Bay, CA Clackamas Greenhouse Aurora, OR

 Frank Clesen & Sons, Inc. Evanston, IL

R.O. Cowley Wholesale Florist Pittsburgh, TX

Burdette Coward & Co., Inc. Punta Gorda, FL

Cremer Florist Hanover, PA

Liberty, NC

Dillon Floral Corporation Bloomsburg, PA

Hardin's Wholesale Florist Supply

Hartzell Flowers, Inc. Dayton, OH

John Klaus & Sons

Greenhouses Greenwood, MO

Mazzanti Carnations South San Francisco, CA

H. Nakano & Sons Redwood City, CA

Park Floral Co.

Englewood, CO

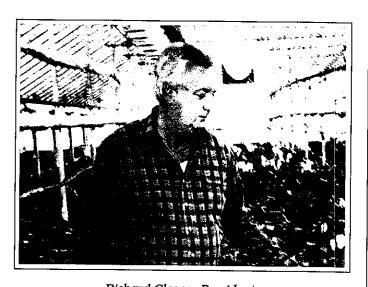
Tietze Wholesale Dallas, TX

Weber's Greenhouses Milwaukie, OR

Wolfe the Florist

Waco, TX

Established in 1990



Richard Clesen, President, Frank Clesen & Sons, Inc.

Living Tributes

Living Tributes are testimonials to outstanding achievement and regard from fellow workers and associates to honor a living member of the industry. All Living Tributes recorded within the Endowment as of December 1990, follow:

Carl Baldesare, Sr. Charles Barr I.W. Bianchi † Z.D. Blackistone Louis J. Brand † Albert H. Burki Delmar E. Demaree, Jr. Robert C. Dewey John Henry Dudley Paul Ecke, Sr. George Elliott John O. Finn Frank Fredenhagen † John W. & LaVerne B. Giles Hazel Grill O. Ben Haley, Jr.

† Howard J. Hook † Francis Hopper † Joe Hopper Dan Irons Martha J. Keller & Herbert Rothwell † Harrison Kennicott, Jr. L.R. "Bud" Kintzele John Knipe

† Leonard Koehler
 † Prof. Alex Laurie
 Elma Lundahl
 Edward & Grace Lutey
 Robert L. Orth
 Eulalah Overmeyer

† Samuel S. Pennock III

Gustav H. Poesch
Jack W. Redditt
Kenneth Royer
Mel Schwanke
R.H. "Hank" Sciaroni
† Kenneth F. Short
† E.G. Thornton

† E.G. Informon † Erwin H. Weder Milton M. Weiss Olin A. Wetzel J.F. Wilcox Family

† Deceased

· Established in 1990



Eulalah Overmeyer

Memorial Tributes

Industry men and women, as well as friends and families, can be remembered in perpetuity through Memorial Tributes. As of December 1990, the following have been so honored:

Mr. & Mrs. S.C. Abbott
David Abrams
Adamo-Loweke
Robert Alenius
Irving S. Allen
Clarence M. Amling
Otto Amling
Henry C.A. Bachman, Jr.
Mr. & Mrs. Dewitt Barber
Clair Barrett
John Barter
Matthew Bartindale
Andrew Benson
Richard I. Benton

- Richard L. Benton Harry Bernard J. Elmer Betty Henry J. Betz. Sr. Clarence J. Bickes Daryl Bordine Frank Brautigam Tommy Bright Irma F. & W.E. Callaham Robert Callaham Oscar G. Carlstedt Denis R. Celleghin Roman J. & Florence A. Claprood Bertha Spence Cook William Coy Kendall James Crissey
- Raymond B. Crowley Annie H. Gooch Darbee

W.L. Crissey

 Robert Eugene Darbee Rodger Davidson William E. DeLoache Mrs. Fern Demaree Nicola & Pasquale DeSantis, Sr. Ira Doud Eugene R. Dramm Floyd B. Dreher Donald Dunbar Magdalena Ecke Austin S. Edgar Walter J. Engel, Sr. Clyde Epperson Albert Ferris Pete Franconi, Sr.

John Furrow, Sr.

Irving B. Garber

Joseph A. Garcia, Sr. Walter Gardner
D.S. Geddis, Sr. John W. & LaVerne Giles
Walter Gills
John Patrick Glass, Jr.
Louis B. Glick
Romaine Glisson
John G. Glodt
Stanley A. Goldman
Douglas R. Gordon
H. "Granny" Granovitz
Joe & Lily Green
Joseph N. Gregoire, Sr.
Cornelius J. Groen

Lavena M. Groen Adolph E. Gude, Sr. Granville Gude William F. Gude Samuel & Huldah Hagen Mr. & Mrs. Alexander Henderson and Frederic Metcalf E.G. Hill & Earl Mann Joseph H. Hill Albert L. Hoekstra Simon Hoekstra Jay Hogrefe Herman Hollberg Leo Hollberg Herbert Holm D. E. Hopkins Otto G. & Anna M. Hupfel Walter M. Hupfel Arthur Ito, Jr. Edward Jacobson Joseph Johnston, Jr. David L. Jones Pauline Modlin Jones Tom Joy Ralph H. Kapp Mary Jane Kennicott Jack Rhodes Kervan Leland T. Kintzele Louis Kintzele D.C. Kiplinger Kiyo Kitayama Másuko Kitayama



Richard L. Benton



Annie H. Gooch Darbee



Robert Eugene Darbee

Electa Koehler Jerome Krivit Paul Krone Yoke Kuromi Kenneth Lawlor John Liesveld John R. McGinley Bertrand G. McGinnis Wake McLellan Melvin Mack Ed Manda George Mangel, Sr. Gurney Mann Joseph T. Markow Mary Ann Markwood Jack Mayesh Joseph Merritt, Sr. W.J. Messmer Richard V. Mikesell Mary M. Mikuriya William G. Minich, Jr. Stanley C. Minshall Jim Morrell Leon Moskatel Barbara B. Mosmiller Frank, W.E. & F.J. Mosmiller Col. Walter Mosmiller, Jr. Rollo Mueller G. Edwin Murphy Albert J. Neill Mr. & Mrs. H. D. Neve Hannah Niday Ross Nielsen Kenneth Noppe Mr. & Mrs. Albert Oelschig, Sr. Pop Patterson Charles F. Pennock

S.S. Pennock III S.S. Pennock, Jr. S.S. Pennock, Sr. Harry L. Peters Peter B. Pfahl Priscilla Fergusson Phelps Leno Piazza, Sr. Andrew A. Pierson Albert Pochelon Oswald Preuss Peter Pugliese Harvery Radus A.L. Rándall James Rathmell Charles O. Reiff, Jr. Curtis W. Richardson, Jr. Rafael Rigual Jerry L. Robertson Arthur Robbins Fritz Roll, Jr. Hans Rosacker Harry W. Roth Robert O. Saunders Jack Savarese Joseph Shaner Muriel Sharon Joe Shinoda Peter Shinoda Yoshiko Shinoda Robert Q. Shoch Kenneth F. Short J.S. Skinner R. Earl Slye Vernon L. Smithers Harold H. Sorensen William H. Stimming William Strickland Albert Strumph

Neil Wade Stuart Leo Stuhidreher Daniel V. Sugrue Shizuo George Suyeyasu Walter F. Swartz Josephine & Anton Sykora Fred M. Tayama Mitsuo Tokunaga Richard Tokunaga Fred Tredup Charles "Bob" Tryon John Tuefel Barbara Euser Van Namen Tony Van Namen Vincent Vanni John H. Walker Adolph "Ade" Weberg Erwin Weder Herbert R. Weder Robert Weidner Henry Weiland Paul E. Weiss James C. Welch Fred Wesemeyer June Wesemeyer Joseph C. Wetzel Judy Wetzel George V. Wienhoeber & Rudolph Scheffler Roy F. Wilcox George Wilke Hubert Wolfe Thomas J. Wolfe & George Wolfe, Sr. Luther Wright Harold F. Yoder

Tributes established 1990



Mr. & Mrs. Joseph Garcia, Sr.



Muriel Sharon

Contributor Recognition

All individuals and organizations making a contribution to the Endowment within the last year, or those contributing a minimum of \$500, are listed in this report. All listings are according to levels reached as of December 31, 1990.

Designations have been assigned various levels of giving. Contributions are cumulative and provide a practical way of building individual and organizational participation.

Recognition plaques are presented annually to those reaching different levels, beginning with the Guardian level.

Designations include:

Builders \$25,000 and above Benefactors \$20,000 to \$25,000 Patrons \$15,000 to \$20,000 Founders \$10,000 to \$15,000 \$ 5,000 to \$10,000 Protectors \$ 2,500 to \$ 5,000 Guardians Vanguards \$ 1,000 to \$ 2,500 Sentinels 500 to \$ 1,000 Sponsors 100 to \$ 500 Givers under \$100

Since this report was prepared as of December 31, some contributors recognized for a given level at the Annual Meeting in July have moved up a level. The current status is recorded herein.

Special Awards

In 1988 three new awards were established to recognize several major levels of giving to the Endowment:

The Gold, for \$50,000 - \$75,000 The Diamond, for \$75,000 - \$100,000 The Platinum, for \$100,000 and above

Recipients through 1990 follow. Those pictured received their respective awards at the Endowment's Annual Meeting, July 28, 1990.

Platinum:

Albert H. Burki Foundation Asocolflores/Colombia Flower Council Andrew L. Darbee Estate Florists' Transworld Delivery Association

Ricardo Valenzuela, President, Colombia Flower Council, receiving The Platinum.

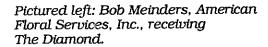


Diamond:

American Floral Services, Inc. Paul Ecke Poinsettias Teleflora, Inc. Yoder Brothers, Inc.

Pictured left: Cynthia Cleveland, President, Teleflora, Inc., receiving The Diamond.

Pictured right: Paul Ecke, Jr., Paul Ecke Poinsettias, receiving The Diamond.



Pictured right: Carl Scharfenberg, Yoder Brothers, Inc., receiving The Diamond.

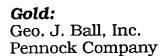












Pictured left: Jack Bauer, receiving The Gold for the Pennock Company.

Pictured right: Marvin Miller, receiving The Gold for Geo. J. Ball, Inc.





Builders

American Floral Services, Inc.
Asocolflores/Colombia Flower
Council
Bachman's, Inc.
Geo. J. Ball, Inc.
Arthur Blome Estate
Albert H. Burki Foundation
Oscar G. Carlstedt Co.
The Claprood Companies
Andrew L. Darbee Estate
DWF Wholesale Florists
Paul Ecke Poinsettias
Paul Ecke, Sr.

Florists' Transworld Delivery Assn.
Florafax International, Inc.
Florists' Mutual Insurance Co.
Fred C. Gloeckner Estate
Gude Brothers Company
Highland Supply Corporation
Manatee Fruit Co.
Mikkelsens Incorporated
Col. and Mrs. Walter
Mosmiller, Jr. Estate
Pennock Co. Pittsburgh Cut Flower Co.
A.L. Randall Co.
Smithers-Oasis
Society Of American
Florists
Sunburst Farms, Inc.
Syndicate Sales, Inc.
Teleflora, Inc.
Van's, Inc.
WFR, Inc.
Wolfe The Florist, Inc.
Yoder Brothers, Inc.



On hand to receive Endowment recognition for the Builder level of giving during the annual meeting breakfast, July 28, 1990, Tom Hension (r) for Smithers-Oasis. (Chairman Dewey presented all awards featured in this section.)

Benefactors

A&W Glads, Inc.
Paul F. & Alwina Amling Estate
Century Florist Supply Co.
Delaware Valley Wholesale
Florist, Inc.
John Henry Dudley
Four Farmers, Inc.
Pete Garcia Company
Kennicott Brothers Co.
Mt. Eden Nursery
Claymore C. Sieck, Inc.
Wholesale Florists and Florist
Suppliers of America
Zelienople Greenhouses



Pictured above: Lorenzo de la Torre (r) receiving a Benefactor plaque for Four Farmers, Inc.



Jim Edgar, President, (r) receiving a Benefactor plaque for WF&FSA.



Don Hook (r) receiving a Benefactor plaque for Zelienople Greenhouses.

Patrons

CFX, Inc.
Walter J. Engel, Inc.
Fred C. Flipse
Flower View Gardens
Bob Gilmore Company, Inc.
Greenleaf Wholesale Florists, Inc.
Robert R. Hall, Inc.

The John Henry Co.
E.G. Hill Co.
Irwin Greenhouses, Inc.
McGinley Mills, Inc.
Northwest Florists' Assn.
Rainbow Flowers, Inc.
Strange's Flst., Ghse. & Garden Center



James Cannon and Kenneth Lee (l-c) receiving Patron and Founder plaques for Rainbow Flowers. (Rainbow Flowers moved up two levels during 1990.)

Founders

Robert C. Abrams American Oak Preserving Co. Armellini Express Lines, Înc. Bay City Flower Co. **Bay State Florist Supply** Gordon Boswell Flowers, Inc. **CCC Associates** R.J. Carbone Co. Everett Lawson Conklin Continental Farms Creative Distributors, Inc. Robert C. Dewey The Exotic Gardens, Inc. Floralife, Inc. Frazee Flowers, Inc. Gelco Internacional, SA Hall Affiliates

The John Henry Co.
Salesmen
Hungnong Seed Co., Ltd.
Lehrer's Flowers
William A. Maas
Park Floral Co.
Paul's Wholesale Florist
L. Piazza Wholesale Florists
A.N. Pierson, Inc.
A.L. Randall Co. Salesmen
Jack W. Redditt
Ribbon Narrow Fabric Co.,
Inc.
San Diego County Flower
Assn.
Sluder Floral Co.

Southern California Floral Assn. Stuppy Family Foundation Sunnyside Nurseries, Inc. Bill Suvevasu Whlse. Florist, Inc. Larry Teitel John L. Tomasovic, Sr. Florist, Inc. Twyford Plant Laboratories, Inc. Jerome Wagner Washington Bulb Co. Weatherford Farms & Greenhouses Milton M. Weiss N. H. Wright, Inc.



James Carey (r) receiving a Founder plaque for Bay State Florist Supply.



Etichi Yoshida (r) receiving a Founder plaque for Sunnyside Nurseries, Inc.

Protectors

M. Adler's Son, Inc. American Florist Exchange Amlings of California, Inc. Ashland-Addison Florist Associated Cut Flower Co., Inc Assn. of Floral Importers of

Associated Cut Flower Co., Inc. Florida Badger Wholesale Ball Pan AM Plant Co. Larry Beck Behnke Nurseries Co. G.A. Berlin, Inc. I.W. Bianchi, Inc. Boesen The Florist California Chrysanthemum Growers Assn. Candle Artisans, Inc. Chicago Florist Supply Company Clackamas Greenhouse, Inc. Cleveland Plant & Flower Co. Conner Park Florist, Inc. Conroy's Inc. Conroy Wholesale Florist Dillon Floral Corporation John E. Dramm Elisabeth Ecke Elmhurst Flower Growers, Inc. Euser's Greenhouses, Inc. FTD District 2-A&B FTD District 6-A&B Fairytale Foils Fall River Florist Supply Co., Inc. Floral & Nursery Times

Florists' Mutual Ins. Co. Officers Flower News Foco, Inc. J.P. Freund, Inc. Gallup & Stribling Orchids, Inc. Pete Garcia Co. Sales Staff Glad-A-Way Gardens Golden State Bulb Growers Grace-Sierra Hort. Prods. Co. Groen Rose Co. O. Ben Haley, Jr. David E. Hartley Mr. & Mrs. Donald Hook Roy Houff & Co. Inc. Robert E. Johnson Wm. F. Kasting Co. G.R. Kirk Co. Ray Kitayama Klepac Brothers Greenhouses, Inc.

Lansing Florists Exchange Leider Horticultural Companies Lincoln Wholesale Florists, Inc. Lynchburg Wholesale Floral Corp.

Corp.
McShan Florist, Inc.
Mainland Nursery, Inc.
Malmborg's, Inc.
Matsui Nursery, Inc.
Mellano & Co.
Cloy M. Miller
Moore Paper Boxes, Inc.

Mount Clemens Rose Gardens Mueller Brothers, Inc. Mutual Cut Flower Co., Inc. Nelson & Holmberg Knud Nielsen Co., Inc. Nor Cal Flower Growers Norfolk Wholesale Floral Corp. Nurserymen's Exchange Oglesby Plant Laboratories Oglevee Associates Oliver & Thompson, Inc. Oregon Roses, Inc. Pajaro Valley Greenhouses, Inc. Plant Marvel Laboratories Redbook Florist Services Royer's Flowers, Inc. Sakata Seed America, Inc. Robert Saunders & Co. Shinoda Floral Co. Southern Floral Co. Stimming Flowers Sunshine State Carnations, Inc. Harry K. Tayama Twin City Florist Supply, Inc. United Wholesale Florists, Inc. Valent U.S.A. Corporation Vosters Nurseries, Inc. Mr. & Mrs. Otto P. Wentland Olin Wetzel Wilsey-Bennett Co./Floral Trans. Div. William Zappettini Co.



Kenneth Royer, Royer's Flowers (r) receiving a Protector plaque.

Guardians

Jim Akin, Inc. Aldershot of New Mexico, Inc. Aldik Artificial Flower Co. Allied Florists Assn. of Baltimore Allied Florists Assn. of Illinois Baisch & Skinner, Inc. **Bartz Viviano Florists** Berthold-Grigsby, Inc. Berwick Industries, Inc. John L. Bodette Branch-Smith Publishing Co. Brody Company Buchbinder Bros. California Florida Plant Co. California Flower Market, Inc. Callaham Wholesale Florists. Calvert Wholesale Florists, Inc. Carson & Gebel Ribbon Co. Burdette Coward & Co., Inc. W.J. Cowee, Inc. Crissey, Inc. Dejong Greenhouse Del Rey Plastics Delhi Hills Flower & Garden Center, Inc. Deloache, inc. Design Master, Inc. Bill Doran Company Dramm & Echter Jim Durio Florist, Inc. Paul Ecke 3 Austin S. Edgar, Inc. Ellison's Greenhouses Elmira Floral Products, Inc. FTD District 3-A FTD District 3-B FTD District 3-G FTD District 9-D FTD District 10-A Flint Florist Exchange Floral Greens International Floral Resources/Hawaii, Inc. Florists' Publishing Co.

John Furrow Gardens America, Inc. L. Ginsberg, Inc. Glass Corner Greenhouse Golden State Wholesale **Florists** Green Leaf Enterprises, Inc. The Green Thumb, Inc. **Greenpoint Nurseries** Growers Wholesale Florists A. Gude Sons Company The Haeger Foundation Albin Hagstrom & Son, Inc. Halifax Floral Co. Mr. & Mrs. John Hanford Hawaiian Heart, Inc. Irene Hayes, Wadley & Smythe Joseph H. Hill Co. Huddart Floral IF Supply Company, Inc. Illinois State Florist Assn. Edward Jacobson, Inc. Johnston Investments Ronald Jones Ferneries Jones The Florist David L. Jones Wholesale Ltd., Burnaby, BC, Canada Karthauser & Sons, Inc. Jack B. Kaufman Keeline-Wilcox Nurseries, Inc. Keller Pottery Co. Philip Lavalle Lemac Nurseries Norma A. Lineberger Lion Ribbon Co. Longview Fibre Co. Lubbock Wholesale Florists M.J. Malloy Co. Neal Mast & Sons Greenhouses, Inc. Jack Mayesh Wholesale Florist Michigan Floral Assn. Mischler's Florist

Missouri State Florists' Assn. A.D. Mohr Greenhouses, Inc. Grace L. Moore NPI Ninomiya Nursery Co. Nordlie, Inc. North Central Florists Assn. Nyren Brothers, Inc. J.B. Parks Wholesale Florist, Inc. Pennsylvania Florist Assn. S. Arthur Peterson Pikes Peak Greenhouses Pikes Peak Texas A.B. Price, Inc. Profile Glass Co. Reeves Floral Products Regency International Bus. Corp. Rhyne Floral Supply Mfg. Co. Riverdale Farms, Inc. Rojahn and Malaney Co. S&S Wholesale Florist Schaefer Greenhouses, Inc. Scott's Gladiolas Farms, Inc. Harry A. Sharp Shoch's Wholesale Florist Leona Short Southeastern Florist Assn. Southern Rainbow Corp. H.L. Stansell Trucking Co. Sunbay, Inc. Wholesale Florists Tagawa Greenhouses, Inc. Tennessee Florist Supply Transamerica Floral Imports Hero Tsukushi Tulsa Grnhse Inc. & Four State Whsle. Uniflora Overseas Florida, Inc. United Floral Exchange, Inc. U.S. Floral Corp. Veldkamp's Flowers Alice Walker Seidler Floral Co. Florence H. Zuegel



Paul Ecke, Jr., (r) accepting a Guardian plaque on behalf of Elisabeth (Jinx) Ecke.

Vanguards

800-FLOWERS Milton Adler Co. Agrexco (USA) Ltd. Ahern's, Inc. Allcities Allstates Flowers-By-Tele-Ameri-Cal Floral American Clay Works & Supply Co. American Foliage Co. Austin W. Amery Amling Brothers Amlings Flowerland Anchor Hocking Anchor Wholesale Flowers, Inc. Apex-Neidinger, Inc. Sam Applebaum Aromas Nursery, Inc. Assoc. Florida Gladiolus Growers, Inc. Mr. & Mrs. Lloyd Bachman Baldwin Wholesale Florist, Inc. G. Victor Ball Ballard Blossom Shop Barco Sons, Inc. Charles Barr Co. The Beall Company A.G. Beiser Wholesale Floral Co. Robert J. Bennett Wholesale Florist, Inc. Mr. & Mrs. Newt Beugen Biaggi's Evergreen Co. Billings Floral Blue Sky Flower Farms, Inc. Boulevard Florist Monica Bramblett Brautigam Florist Bright's Florist Supply, Inc. Bronx Florist Supply Co., Inc. G.R. Brown Co. Brown Floral Co. K.C. Browne, Inc. H.M. Buckley & Sons, Inc. Buning The Florist California First Bank California Flower Farms, Inc. California Flower Shippers, Inc. California Pajarosa Carlton Rose Nurseries

Carolina Wholesale Florist Henry M. Cathey A. Cavallaro & Son, Inc. Cedar Rapids Greenhouses Chicago Flower Exchange Chipola Nurseries, Inc. Condor Farms Conklyn's, Inc. Continental Floral Greens Continental Flowers Cov Kendall Greenhouses Crestline Flower Shop Crowley Brothers, Inc. Daisy Hill Greenhouses, Inc. Dakóta Plastics Davidson-Uphoff, Inc. Dean's Designs, Inc. DeSantis Florist Devor Nurseries, Inc. Didier Greenhouses, Inc. Dos Pueblos Orchid Company Carl Dreisbach, Inc. J.W. Dudley Sons Co. Thomas Dean Dudley Edward's Florist Supply, Inc. Elliott Rose Co. of Madbury, Inc. Elliott & Williams Roses Ellis Floral Co., Inc. Equiflor Corporation Erie Cut Flower & Supply Co., Inc. Esprit-Miami FTD District 1-G&H FTD District 5-A&B FTD District 6-E FTD District 6-F&G FTD District 7-D FTD District 8-F FTD District 9-E FTD District 14-B Fenton Art Glass Co. Ferris Brothers, Inc. Louis Figone Nursery Fiksdal's Flowers Fisher Florist Flambeau Products Corp. Raymond A. Fleck, Inc. Wade Fleming, Inc. Floral Acres, Inc. Floral Ave. Greenhouse Co.

Florida State Florists' Assn. Florimex, Inc. New York Flower Trading Corp. Don Flowers Florist, Inc. Flowers By Dick & Son Flowers By Sandy, Inc. Foliage Co. Of America Frampton's Greenhouses Franklin China Co., Inc. Frank Fredenhagen Friesell Ranches Garcia Group Garden City Floral Geneva Flower Farm George's Florist Ghilarducci's Florists, Inc. Giftwares Company, Inc. Gish Flowers Louis B. Glick & Son, Inc. Golden West Greenhouse Gordon's Grnhse., Inc. of Bear Valley Joan S. Gordon Robert L. Graham Grande Greenhouse Greenwood Greenhouses Gregoire's Flowers Growing Systems, Inc. Handy Floral Products Hanford's, Inc. Wholesale Hardin's Wholesale Florist Hastings, Inc. Hauge's Flower Store, Inc. Hausermann Orchids Hawkins Greenhouses Hayman & Lindenberg, Inc. Herman J. Heyl Florists, Inc. Heyl Roses, Inc. Hillcrest Garden Hirt's Wholesale Co. Hub Floral Corp. **IBG** International Illinois Bronze Paint Co. **INARCO** International Floral Corp. Jacksonville Whise. Floral Co. Jacobsens Flowers Jednak Floral Co. Jetram Sales, Inc.

Jiffy Foam, Inc. Eric Johnson, Inc. J.R. Johnson Supply, Inc. Johnston & McCallum, Inc. David L. Jones Whise, Florist/ Spokane, WA Henry J. Kaufman & Assoc., Inc. Kessler & Assoc. Keystone Ribbon & Floral Supply Co. King Wholesale Kitayama Brothers Greenhouse, Union City, CA Kitayama Brothers Greenhouse, Watsonville, CA Kitayama Brothers Greenhouse, Brighton, CO Klenke Floral Klupenger Nursery & Greenhouse, inc Mark Knox Flowers Charles F. Kremp 3rd Florist Frank Kuwahara Lakeland Florist Supply, Inc. Lakewood Greenhouse, Inc. Lamborn Floral Co. Layser's Flowers, Inc. Lee Wholesale Floral, Inc. Ed Lenz Enterprises, Inc. Lindskoog Latham Flowers Lloyd's Wholesale Florist Ludy Greenhouse Mfg. Corp. M & M Wholesale Florist, Inc. W.W. McAllister Co. H. Hunter McIntire Rod McLellan Co. McNamara - Broadripple Florist Robert Mann Packaging Co. Marshall St. Greenhouses Alex R. Masson, Inc. Andy Mast Greenhouses Mazzoni Farms, Inc. Bob Mears Wholesale Florist Meldrum Mfg. & Engineering Meskers' Ruth Messmer - Florist, Inc. Alice Metcalf Henry F. Michell Co.

Middle Atlantic Florists Assn. Harry Miller Flowers Miller's Wholesale Florists Minshall The Florist, Inc. Molbak's Greenhouse, Inc. Monterey Flowers, Inc. Mountaineer Greenhouses H.R. Mueller Florist Multiflora Import Co. H. Nakano & Sons Navlet's Florists Nettie's Flower Garden, Inc. Hannah Niday Florist, Inc. Nouvette Trading, Ltd. Novacek Greenhouses Oelschig's Wholesale Nursery Oklahoma State Florists Assn. Olsons Greenhouses Robert L. Orth, Inc. Pacific Coast Evergreens Parmenter Florist, Inc. Michael Parrella Penn Hill Farm Phillip's Flowers & Gifts William Pinchbeck, Inc. Platz Flowers & Supply Mr. & Mrs. Gustav C. Poesch Poulsen Greenhouses, Inc. Premium Flowers Corp. Harvey O. Preuss Florists Quality Gladiolus Gardens, Inc. Regional Farms, Inc. Reliable Glassware & Pottery Co., Curtis W. Richardson, Inc. Steve Summers Hans Rosacker Co. Ross Marketing Royal Gorge Flower Farms, Inc. Sabana Farms San Lorenzo of Texas Betty Sapp Satow Growers, Inc. Schaaf Floral And Gift Mr. & Mrs. Israel Schneider Mr. & Mrs. Robert O. Schurke Seagroatt Companies Select Ribbons, Inc.

Delois C. Shelton Shenandoah Floral Mfg. Co., Inc. Shreveport Flower Mart, Inc. Delbert Smith, Inc. So. Calif, Flower Growers Assn. Southern Steel & Wire, Inc. Speight Associates Ltd. Stimming Flowers of California Stringer Whsle. Florist, Inc. Susan's Florist Syracuse Pottery, Inc. Tayama Whise. Florists Taylor's Flower Shop & Greenhouse The Taylors of Penny Hill Tennessee Florist Supply, Inc. Tennessee Wholesale Florists, Inc. Texas State Florists' Assn. J.H. Thompson, Inc. Thompson Rose Sales, Inc. Ulery Greenhouse Co. United Floral Supply, Inc. United Whise, Florists of California U.S. Flowers Vanni Nursery, Inc. Joseph W. Vestal & Son Co., Inc. Victor The Florist Vinson & Fortiner Vogt's Flowers, Inc. Wadsworth Control Systems, Inc. Curtis Wagner Co., Inc. Wagner Greenhouses, Inc. Waterdale, Inc. Weidner's Begonia Gardens Welch Whise. Florist, Inc. West Side Greenhouses Weston Trucking Co. Weyerhauser Tissue Culture Center Bruce Wheeler Virginia Wienhoeber J.F. Wilcox Windler Whsle, Floral Co. World Flowers, Inc. Everett Wright G. Ramsey Yoder Zieger & Sons, Inc. Zipperer Farms

Sentinels

Agriflora Corporation Ah Sam Floral Co. Air Conditioned Roses Allied Florists of Delaware Valley Allied Fist, Assn. of Virginia Allied Fists. Assn. of Greater Wash. Allied Fists, Assn. of Worcester County American Floral Art School Amling Co. Clarence Amling Roses, Inc. Andre Greenhouses, Inc. Augusta Wholesale Florist B & K Tool Die Stamping Co., Inc. Harold L. Bachman Stanley Bachman C.J. Baker Wholesale Florists Maud Baker Flower Shop Mr. & Mrs. John Balistreri Banner Flower Shop Barter Brothers Florist John P. Bartlett Henry Bass Greenhouses Bel-Air Flower Growers & Shippers, Inc. Bell Greenhouses, Inc. Bens Transworld-Imp. H.G. Berning Hubert J. Beudert Blackwell Nurseries, Inc. Blue Pacific Flowers Boone Greenhouses, Inc. Bordine's Better Blooms Mr. & Mrs. Ray Bozeman Louis J. Brand Frederick Brasco Florist Brookview Floral, Inc. Buckingham Florist, Inc. Busch Greenhouses, Inc. Mr. & Mrs. Len Busch Callaway Florists & Greenhouses Callison's, Inc. Canton Wholesale Floral, Inc. Carey's Flowers, Inc. Carpenter's Flower Shop T.S. Chan Nursery, Inc. Charlotte Florist Supply Co. Chase Gardens G.C. Chastain Co., Inc. Frank Clesen & Sons, Inc. Colman Florist, Inc. Colonialware Wholesale, Inc. Colorado Floral Products Colorado Gold Wholesale Florist Colorado Springs Wholesale Florist, Inc. Columbia Florist Club

Connell's Bexley Greenhouse P.S. Cook Cosmar Air Freight Service Costa Nursery Farms Costin's Flowers & Gifts John W. Cox Wholesale Florist Creative Marketing Concepts, Inc. Cronin Florist Shop Crown Import Corp. Crown Floral Cut Flower Exchange Of Pennsylvania D & C Wholesale Florist, Inc. Dalton's Flowers Danielson Floral Co. Kay Danzer Co. **Dautoff Flower Growers** Delaware County Wholesale **Florist** Detroit Flower Growers, Inc. **Dev Brothers Greenhouses** Dietert Wholesale Florist **Doherty Flowers** Lynn Dovle Flowers Durban Greenhouses, Inc. Raloh Durst Rose Gardens Dusty's Flowers & Gifts **Dutch Brothers DWF of Dallas** DWF of Norfolk DWF of St. Louis DWF of Salt Lake City DWF of Tacoma East Coast Bulb Farm Echter's Greenhouses, Inc. Edward's Florist Elliott Greenhouses Endres Floral Co. Ensign Wholesale Florist, Inc. Everflora, Inc. Express Seed Co. FTD District 3-H FTD District 6-C&D FTD District 8-A FTD District 9-B FTD District 11-E FTD District 13-B FTD District 13-C FTD District 13-D FTD District 13-G Fayette Wholesale Fist., Inc. Felly's Flowers Robert Fine Associates Henry W. Fischer & Son Fischer's Flowers Floral Supply, Inc. Floralware by EPM Florimex Chicago Inc.

Flot Aire. Inc. Flowers by Esther Flowers From Florida, Inc. Flowers Tommy Luke Flowers, Inc. Wholesale Forest Grove Ferneries **Foxpoint Plant Growers** Fraser's Flowers Fredlo Farms Freeman's Flowers Harry H. Fukutome Nursery, Inc. Galloway Florist, Inc. Gardenville Greenhouses Gardner's Westwood Flower Shop The Garland Company Garner Farms, Inc. Gassafy Wholesale Florist Jerry Geary Flowers Genna's Wholesale Flowers George M. Geralis Gerhart Greenhouses Germantown Greenhouses, Inc. Glenn's Wholesale Florist, Inc. The Rose Club Golden Gate Flower Growers Gongaware & Parry Florist Carl F. & Jean Gortzig Graham Wholesale Floral, Inc. Grayce Floral Supplies, Inc. Greater St. Louis Flower Growers Assn. Green Circle Growers, Inc. Don Hahlbeck Greenhouse Hall's Flower Shop Halsema Greenhouses Harmar Products, Inc. Harrison Wholesale Floral Harrison Flowers Hartford Florist Supply Heap Greenhouses, Inc. Heeney Company, Inc. Henry's Plant Farm Hermes Floral Company Hertog Floral Co. Hiawatha, Inc. A.B. Hill Simon Hoekstra and Son Huhn's Greenhouse Illiana Unit of Teleflora International Flower Exchange Ivandale Floral Co. Ivv Acres, Inc. J & E Wholesale Floral Co. Earle A. Johnson Florist Johnson Floral Co. Johnson Greenhouses, Inc. Johnson's Roses, Inc.

T. Larry Jones, Inc.

Robert Jones' Mt. Madonna Orchids Kannapolis Wholesale Florist Kansas State Florists Assn. Kariya Nursery Kato Cut Flower Kearney Floral Co. Kel-Stan Products Co. Kervan Co., Inc. Norm Kesel Florist, Inc. Mrs. Leland T. Kintzele Koch Originals Kodama Sunnydale Greenhouse Koehler & Dramm, Inc. Lafavette Florist & Greenhouses. Inc. Lake Washington Greenhouses Lanman Flower Shop, Inc. Lebens Flowers, Inc. Herman Lederer Sons Merlin Leger Leo's Flowers Lewis Brothers, Inc. Lomey Manufacturing Corp. Lynde Greenhouses, Inc. W.W. McAllister Co. J.M. McConkey & Co., Inc. McLeod Florist Maekawa Brothers Greenhouses. Inc. Magicsilk Div. of Selo, Inc. Marche & Co. Joseph Markow Florist Mary Jane Florist/Gift Shop Massoni Wholesale, Inc. Mattern Floral, Inc. Mattoon Flower Shop & Greenhouses Meadows Brothers Nursery Equipment Herman Meinders Joseph S. Merritt, Jr. Donald Metzger Edwin Michel, Inc. Kei Mikuriya Miller Floral Co. Don Miller Greenhouse Co. Paul Minor, Inc. Miyashita Nursery Mobile Wholesale Floral Co. Erwin Mojonnier Enterprises Montana State Florist Assn. Moore's Wholesale Florists John R. Moore Greens Co., Inc. Mosmiller Florist Mountain View Wholesale Florist, Inc. Muennich Sales, Inc.

A. Nagamine Nursery, Inc. K. Nakashima Nursery Co. Nanz & Kraft Florist National Greenhouse Co. **Neilson Orchids Ness Flowers** Neubauers Flowers, inc. Newton Greenhouse Niedens Hillside Floral, Inc. Nishimoto Nursery Novelties By Premier Ltd. G. Nutile, Inc. Oak Grove Fernery Oakland Flower Shop, Inc. The Oklahoma Flower Market Orlander Florist, Inc. Herman Orth Corp. Stephen Otte Paradise Candles, Inc. Pennsylvania Cut Flower Co. S. Arthur Peterson, Inc. Phoebe Floral Shop Phoenix Flower Shops Pickrells Florist, Inc. Pickrells Wholesale Flowers & Supplies Pietrafeso Greenhouses Poets of WF&FSA Pressells Flowers S. Russell Prizer Florist Quality Wholesale Florist Quinlan Wholesale Florist, Inc. George W. Radebaugh & Sons Reeds Flowers Henry T. Ritter Clarence Roberts Rockville Florist Rockwell Farms, Inc. Rocky Mountain Wholesale Florists, Inc. Dick Rosacker Rosedale Greenhouses, Inc. Rosemont Gardens Rough Brothers, Inc. Rubens Originals St. Louis Wholesale Plant Co. Schlag's Gladiolus Farms Sedan Floral, Inc. Selecta Farms, Inc. John D. Shanklin Willis Shaw Sheppard Enterprises, Inc. Sierra, Inc. Earl J. Small Growers, Inc. Ray Smith Cut Flowers Smith's Flower Shop Society of lowa Florists South Louisiana Co-op, Inc.

Specialty Wood Products Spokane Flower Growers, Inc. Springfield Florists Supply Spurlock's Flowers Stonehurst Wholesale Florists Stonequarry Greenhouses, Inc. Mr. & Mrs. Leo Stuhldreher Suburban Wholesale Florist Daniel Sugrue and Sons Sun Valley Bulb Farms, Inc. Superior Florals, Inc. Swanson the Florist, Inc. T and W Sales Co. George Thomas, Inc. Thornton Wholesale Florists Tietze Wholesale Florist Tipton & Hurst, Inc. Tobler's Flowers, Inc. Todd's Flowers Tommy's Wholesale Florist, Inc. Topstar Floral, Inc. Tri City Florist Supply Tropic Greenhouses Tropical Foliage Plants, Inc. Tulsa Flower Exchange, Inc. Two-E Carnations, Inc. Union County Florist Supply, Inc. Uto's Greenhouse, Inc. Vacuum Orna-Metal, Inc. Van Dyk Brothers Van Zanten's, Inc. Vestal Wholesale Florist, Inc. Viva's Flowers Wald Imports Ltd. Clinton A. Wallace Virginia R. Walter The Wamego Floral Co. West Texas Floral Co., Inc. Ray Western White's Nursery & Greenhouses Wilch, Smith & Brock Wild Flowers Quality Wholesale Florist, Inc. Wilhide's Flowers Harold Wilkins Wilmington Florists Exchange, Inc. Winandy Greenhouse Construction Co. Norman H. Winter, Inc. Witmer's Greenhouses, Inc. W.M. Woodruff's Son, Inc. XYZ Imports, Inc. York Florist Yoshida Farms, Inc. Youngstown Plant & Flower Zimlich The Florist, Inc.

Sponsors

A & B Florist Supply Co. Allen Associates, Inc. A-Roo Company H.J. Benken, Florist, Inc. Breitinger's Flowers, Inc. Blue Ribbon Carnations, Inc. **Briarwood Florist** Jack Buckley & Associates Buffalo Import Co. Burleson Wholesale Florist Candle-lite Cedar Bridge Nurseries Central Iowa Wholesale Floral, Inc. Norm Cha Lor Flowers, Inc. Coast Floral Supply, Inc. D.S. Cole Growers Colonial House of Flowers Colorado Greenhouse Growers Assn

Craftex Wholesale Distributors **Cuthbert Green Houses D&W Greenhouses** Stephen J. Daigler Robert H. Deibel Greenhouses Dickerson's Greenhouse Gene M. Dodson and Associates Eastern Wire Products Co. Elfrieda's Flowers, Inc. Entenmann's Florists Cindy Essers Floral Shop Everflora Chicago, Inc. Fahr Greenhouse Fairview Farm Fantom & Gahs Greenhouses, Inc. Clifford T. Farmer The Fetzer Greenhouses Fleur De Lis Wholesale Florist Supply Floral Plant Growers, Inc. Flowers & Gifts, Inc. Flowers By Ford

Givnish Floral Imports Doug & Shirley Green Green Circle Growers, Inc. Green Mountain Florist Supply Green Valley Floral Greiling Farms, Inc. Gro-Joy Plants, Inc. Hartford Farms Hibco Plastics, Inc. Hoo's Florist & Plant Shop Hopkins Enterprises, Inc. Hopper's Wholesale Florist Horizon Farms, Inc. Hungerford Farms, Inc. Johnston The Florist **KPT Wholesale Florist** Kervar, Inc. Kocher Plant & Soil Lab Kono & Sons, Inc. Lala Imports, Inc. Lovell Farms, Inc. Dave Lowenheim & Associates Robert E. Lyons D. McCahon Nursery McCallum Wholesale Floral Services, Inc. Mac Lennan's Flowers, Inc. Maday Wholesale Greenhouses, Inc. Richard Malvern Florist Henry Mast Greenhouses, Inc. Matzke Florists The C. Merkel And Sons Company Mid-American Growers Mid Island Floral Supply Ltd. Minneapolis Floral Co. Mountain View Florist, Inc. Multiflora, Inc. John Mundy Florist Nabeta Nursery, Inc. E.J. Nagengast Florist & Greenhouse

Nickeson Greenhouses Edward F. Norberg, Inc. Oishi Nursery Orchid Isle Nursery Ozark Wholesale Florist, Inc. Pacifica Flowers In Encinitas Pletschers Greenhouses, Inc. Princess Ribbon Corp. Priola Greenhouses, Inc. **RJS** Greenhouses Relles Florist A. Repetto Nursery Riverside Wholesale Florist Robert D. Rumfield James Saunoris & Sons, Inc. Savon Wholesale Florist Supply Carl Scharfenberg Mike Shinoda Shady Hill Gardens John Shelton Shinoda Design Center, Inc. Doug Simmons The Gordon L. Smith Co. Smith Gardens, Inc. South-Western Floral, Inc. Southern Cut Wholesale Flowers Stadium Flowers Stafford Conservatories, Inc. Sun Pacific Flower Shippers Sunwest Wholesale Floral George Teufel Holly Farm, Inc. Trenton Crockery Co. Val-Al Greenhouses, Inc. Valley Wholesale Floral of Lincoln Jack A. VanNamen Jacob VanNamen Van Wingerden International, Inc. Vissers Florist & Greenhouse Watsonville Nurseries Weinstocks Flowers Willow Specialties I.V. Wilson Florist

Givers

French's Cut Flowers

Gainan's Flowers

Brand Flowers, Inc.
Mark P. Bridgen
Brouwer Nursery
Central Michigan Wholesale
Kenneth L. Goldsberry
Ivex Floral & Nursery Products
Jeffrey B. Jones
Dorothy H. Kehl
John W. Kelly
David Koranski

Mr. & Mrs. John Menches Mr. & Mrs. Frank A. Michaels Marvin N. Miller Mt. Vernon Florist, Inc. Nuckton Co. Paul's Unique Creations H. Brent Pemberton James F. Price Rheba's House Of Flowers Richard & Janet Rohrich Rosenfeld Ribbon, Inc. St. Edmond's Academy Kenneth C. Sanderson Charles S. Stovall Tinga Farm Peter Tryforos Associates Eleanore Young Leslie M. Ziringer

Contributors Through FTD Clearing House

A Little Something A Sweet Touch Florist Acacia Flower Shop, Inc. Accent Florist Adam's Florists, Inc. E.R. Adgate & Son Florist Aiea Florist Albert's Flowers & Greenhouse Aldrich Floral Studio Aloha Florist Altman's Flower & Gift Box Altus Floral Co. Ann's Florist & Greenhouse Annandale Florist & Nursery Anthony's Florist & Gifts Arlene's Flowers Art Floral Audrey's Flower Shop, Inc. Aurora Village Florist BO-TY Florist, Inc. Backmann Florist Balch's Flowers Ball-Park Floral Barbara's Blossom Shop, Inc. Barth's Florists Beatty & Sons Florist Becks East Peoria Florist Bird's Nest Florist Blair's Florist Shoppe Blossom Shop Florist, TN Blossom Shop Florist, TX Bortmas the Butler Florist Bos Floral, Inc. Boulevard Florist & Greenhouse Bouquet Boutique Flowers Bouquet Boutique, Inc. Boyntons Greenhouse Brandywine Flower, Inc. Brenham Floral Co. **Broadmoor Florist** Brown's Flowers F.C. Bruns & Sons Buckingham Florist, Inc. Buds 'n Bees Buell Florist & Greenhouse **Burgevin Florist** Burn's Flower Shop Burns Floral Co. & Greenhouse Busse & Rieck Sunnyside Greenhouse Butterfield's Hyatt Regency Cable Car Florist Casa Trias Florist Cason's Flowers & Gifts Charles The Florist Chars Flowers, Inc. Chester's Flower Shop & Greenhouse Christell's Flower, Inc. Christensen the Florist Christoffers Custom Flowers Chula Vista Florist Co. Cinderella Flower Shop City Floral Shop

Clair's Flower Shop, Inc.

Clark Street Florists, Inc. Clark's Flowers Clarks San Luis Obispo Claudia's Flowers Clayton's Floral & Garden Cleveland The Florist Coalinga Floral Colonial Florist, NH Colonial Florist, NY Colonial Flower Shop Colonial House of Flowers, CA Colonial House of Flowers, NJ Conway Palms Florist Marshall T. Cooke Cottage Flowers, Inc. Country Thickets, Ltd. Coy Kendall Flowers, Inc. Crévasse's, Inc. Crouthamel Flower Shop Crown Heights Florist Cupertino Nursery & Florist Cypress Gardens Flower Shop Dahl's Floral Gardens Dalsimer, Inc. David's University Florist Davis Florist Shirley Dean's Flowers Demmie Blackistone & Associates Dicks Flowers, Inc. Raiph Dillon's Flowers Dodge the Florist, Inc. Edelweiss Floral Edmonds Flower Shop Elaine's Flowers Elizabeth's Flowers Elizabethtown Florist Elmwood Florist, Inc. **Emling Florist** Emma's Flowers & Gifts **Empire Florist** Erickson's, Inc. **Eubank Florist** Eve's Flowers, Inc. Evelyn's Flowers Everett Mall City Floral Feeney Florist Fellys, Inc. Ferrari Florist Gifts Festus Flower Shoppe Fields Flower Shop Floden's Florist Floral Arts Floral Creations, Inc. Floral Images Florist Atlanta Floristically Yours Flowers Flower Basket, CA Flower Basket, MO Flower Basket Greenhouses Flower Bowl & Gift Shop Flower Fair Flower Lane Florists, Inc. Flower Palace of Winter Haven Flower Parlour

Flowerette

Flowerland Flowerland Florist Flowers Galore Flowers and Gifts by Barbara Flowers by Colette Flowers by Dick Lee, Inc. Flowers by Goz, Inc. Flowers by Hansen Flowers by Jean Ann Flowers by Vover, Inc. Forte's Flower Patch Foster's Flowers Four Seasons Florist Foushee Florist Fran's Florist Frances Flower Shop William J. Franklin Fred's Flowers and Gifts Freeman's Florist, Inc. Fussell Florist, Inc. Gable's Florist & Greenhouse Galeton Greenhouses Gali's Flower & Garden Center Garden City Florist Garrison Hill Greenhouses George's Flower Shop Gig Morris Belmar Florist Gilliam's Florist of Greensboro Ginza Florist & Gift Shop Girton's Flowers & Gifts Glen Terrace Flower Shop Glidden Campus Florist Gordon's Flowers Grassi's Flowers & Gifts Gray's Floral Gallery, Ltd. Green Bay Floral & Greenhouse Green Leaf Florist Greenspoint Florist Greenwald's Greenhouses Haberkamp's Flowers Hall & Di Maria Flower Shop Halliwells Florist Hamill Floral Hanna's Florist Hansens Flower Shop, Inc. Harold's Flowers Harrisons' Flowers Hart Floral Hemmerly's Flowers & Gifts Henderson's Flower Shop Heritage Flowers Hibbard's, Inc. Hillside Florist Hilltop Florist Holmes-McDuffy Florist, Inc. Harold Hoogasian Flowers House of Flowers House of Flowers Greenhouse Hrnak's Flowerland, Inc. Hunkele Hutchinson's Flowers, Inc. ice House Flowers, Inc. Inglis University Florist Issaquah Floral & Gift Shop Jan's Flower Affair

Emily Jaynes Flowers, Inc. Jean's Flower & Gift Shop Jenks Flower & Gifts Jim's Flowers Johnnie's Floral Shoppe Johnson's Flower Center Judd's Flowers & Plants Jultak's Flowers Karen's Flower Kottage Kay's Floral Shoppe, Inc. Kean Flowers Keefe's Flowers, Inc. Keil Brothers Greenhouses Keller Florist Ken's Flowers & Gifts Ken-Mar Flowers Clark Kennedy Florist Norm Kesel Florist, Inc. Kingston Floral Kitty's Flowers Lafleurs Flower & Gift Shop Lee's Flower & Gift Shop Robert A. Lehde Florist Lenores Florist Lesher's Flowers, Inc. Lige Green Flowers & Gifts Lilly's Flowers Little Mountain Flowers Log Cabin Florist Lombard Floral Co. Longmont Florist, Inc. Lorbeer's Flower Shoppe Lord's Flowers Los Alamitos Florist Lumberton Floral Co., Inc. M'Lady's Flowers Mableton Flower Shop Main Street Florist, Inc. Marble Falls Flower & Gift Marie's Village Flowers Markers University Florist Marlowe's Flowers & Gifts Mary Bell's Flowers Mary Jane Flowers & Gifts Mary Jane's Floral Basket Maties Florist McKinney's Flowers, Inc. McLean Flower Affair McLeod's Flowers Memorial City Florist Miami Floral Michler Florist, Inc. Midway Florist Midwest City Flowers Shop Millard Greenhouses Miller's Florist Minton's Flowers H. Mormile & Sons Mueller's Flower Shop Murphy Florist & Gifts Nature Nook Florist Neponset Florist, Inc. Newtown Square Flower Shop H.J. Nielson Florist North Liberty Flower Shop Northside Floral

Norwalk Florist Novak Flowers, Inc. Bill O'Shea's Florist Olde Village Flower Shop Bob Olin's Flowers Olympia Florist, Inc. Original Anna Catanese Osborne's Florist Oscoda Floral Our Creations Florist Owens Flower Shop, Inc. Parmentier's 9th St. Floral Paul's Flower and Plant Shop Paul's Flowers Penfield Flower Shop, Inc. Penny & Irene's Flowers Perez & Co. Florist Petal Florist Petal Patch Petal Pusher Florist Peter's Flowers Placerville Flower Shop Plaza Flowers, AZ Plaza Flowers, IL Lee Polites - Florist Pompton Lakes Florist Posno Flowers Prescott Flower Shop Alan Preuss Florists, Inc. Pugh's Floral Shop Queen Anne Flowers & Gifts Harry Quint Greenhouse George W. Radebaugh & Sons Raffensberger's Flower & Gift Reed-Hills Florist Richards-Rodgers Florists Riedel's Flowers, Inc. Riverside Florist & Gifts Riverside Greenhouses, Inc. Riverview Florist **Robbins Flowers** Rockcastle Florist Rockville Florist Rocky Ford Floral E.L. Rocquin Florist & Grnhs. Robert Rogers Florist Rosaia Brothers Floral Rose Glen Florist, Inc. Rose's Florist, Inc. Rosie's Florist & Gift Shop Rothermel Flowers & Gifts Harold A. Ryan, Inc. Sam's Flower and Gift Shop San Rafael Floral Company Santa Rosa Flower Shop Schmidt's Flowers Scott Florist Sea Tac Flowers A.W. Seeley & Son Seifert's Floral Co. Shady Lawn Florist & Greenhouse Silk's Flower Shop Simi Valley Florist Smith Floral Co. Marion Smith Florist Smith's Greenhouses, Inc.

Speedway Flower Shop Spencer Florist & Garden Center St. Cloud Floral, Inc. Stanley's Flower Shop, Inc. Stanleys Fl&Fr Baskets State College Floral Shop Steffy's Flowers M.J. Steiner Flower Shop Stember Fashions in Flowers Sunnywoods Flower Shop Swanson The Florist, Inc. Swartley's Florist Taylor Floral Co., Inc. Tehachapi Flower Shop Thatchers Florist & Gifts The Blossom Shop The Bouquet Shop The Denville Plant Peddler The Flower Box The Flower Cart. Inc. The Flower Mill The Green Scene The Little Greenhouse The Loraine Gardens The Mariemont Florist The Norwich Flower Shop The Petal Pusher Florist The Posey Patch Florist Joseph Thomas Flower Shop Tommy Tucker Flower Shop Tucker Flower Shop, Inc. Tulip Tree Floral University Flower Shop, Inc. Valley Flowers Valley Garden Center Vidor Florist Shop Village Flower & Gifts Village Green Vincent's Greenhouse Virginia's Flowers Walker's Florist Tom Ward Florist Wayside Gardens, Inc. Wayside Nurseries Henry Weiland Company Weinstock's Florists, Inc. Welke's House of Roses West End Greenhouses Westloop Floral Wharton House of Flowers Whidden Florist, Inc. William-Edward Florists Williams Flower Shop Winfield Flower Shoppe Winter Floral Co. Wirth Florist Woodbridge Shoppe Woodinville Florist World of Flowers Yazel's Colonial Flowers York Florist Yuess Gardens Company Zimmer Floral, Inc.

Endowment Club

The Endowment Club was established to recognize contributors of \$10,000 or more, those who pledge to complete this amount within ten years through cash donations, provide a bequest in their will, or take out a \$30,000 whole life insurance policy. Endowment Club members as of December 1990, follow:

A & W Glads, Inc. Bob and Betty Abrams American Floral Services. Inc. American Florist Exchange American Oak Preserving Co. Armellini Express Lines, Inc. Asocolflores/Colombia Flower Associated Cut Flower Co., Inc. Bachman's, Inc. Geo. J. Ball Co., Inc. Bay City Flower Co. Bay State Florist Supply Larry Beck Behnke Nurseries Co. Gordon Boswell Flowers, Inc. Albert H. Burki Foundation **CCC** Associates CFX, Inc. R.J. Carbone Company Oscar G, Carlstedt Co. Century Florist Supply Co. Chicago Florist Supply Co. The Claprood Companies Cleveland Plant & Flower Co. Conner Park Florist, Inc. Conroy's, Inc. Continental Farms Creative Distributors, Inc. Delaware Valley Wholesale Florist, Robert C. Dewey Dillon Floral Corp. John Henry Dudley **DWF Wholesale Florists** Elisabeth Ecke Paul Ecke Poinsettias

Paul Ecke, Sr.
Walter J. Engel, Inc.
Euser's Greenhouses, Inc.
The Exotic Gardens, Inc.
Fall River Florists Supply Co.
Fred C. Flipse
Florafax International, Inc.
Floralife, Inc.
Florists' Mutual Ins. Co.
Florists' Transworld Delivery
Association
Flower News

Association
Flower News
Flower View Gardens
Four Farmers, Inc.

Frazee Flowers, Inc. J.P. Freund, Inc. Gallup & Stribling Orchids, Inc. Pete Garcia Company Pete Garcia Co. Sales Staff Gelco Internacional, SA Bob Gilmore Company, Inc. Grace-Sierra Hort. Products Co. The Green Thumb, Inc. Greenleaf Wholesale Florists, Inc. Gude Brothers Co. O. Ben Halev, Jr. Hall Affiliates Robert R. Hall, Inc. David E. Hartley The John Henry Company The John Henry Co. Salesmen Highland Supply Corp. E.G. Hill Company Don and Kay Hook Roy Houff & Co., Inc. Hungnong Seed Co. Ltd. Irwin Greenhouses, Inc. Jacobsens Flowers Wm, F. Kasting Co. Kennicott Brothers Co. Lansing Florists Exchange Lehrer's Flowers Leider Horticultural Companies Lincoln Wholesale Florists, Inc. William A. Maas Mainland Nursery, Inc. Malmborg's, Inc. Manatee Fruit Company Matsui Nursery, Inc. McGinley Mills, Inc. McShan Florist, Inc. Mellano & Company Mikkelsens, Incorporated Mt. Eden Nursery Company Mueller Brothers, Inc. Nelson and Holmberg Northwest Florists' Assn. Nurserymen's Exchange Oliver & Thompson, Inc. Pajaro Valley Greenhouses, Inc. Park Floral Co. Paul's Wholesale Florists Pennock Company L. Piazza Wholesale Florists

A.N. Pierson, Inc. Pittsburgh Cut Flower Co. Plant Marvel Laboratories Rainbow Flowers, Inc. A.L. Randall Company A.L. Randall Co. Salesmen Jack W. Redditt Reeves Floral Products, Inc. Ribbon Narrow Fabric Co. San Diego County Flower Assn. **Betty Sapp** Shinoda Floral Co. Claymore C. Sieck, Inc. Sluder Floral Co. Smithers-Oasis Society of American Florists So. California Floral Assn. Southern Floral Co. Speight Associates, Ltd. Strange's Florist, Greenhouses and Garden Center Stuppy Family Foundation Sunburst Farms, Inc. Sunnyside Nurseries, Inc. Bill Suyeyasu Whise. Florist, Inc. Syndicate Sales, Inc. Harry Tayama Larry Teitel Teleflora, Inc. John L. Tomasovic Sr. Florist, Inc. Twin City Florist Supply, Inc. Twyford Plant Laboratories, Inc. United Wholesale Florists, Inc. Van's, Inc. Jerome Wagner Washington Bulb Co. Weatherford Farms and Greenhouses Milton Weiss Olin Wetzel WFR, Inc. Wholesale Florists and Florist Suppliers of America Harold S. Wilkins Wilsey-Bennett Co./Floral Trans. Div. Wolfe the Florist, Inc. N.H. Wright, Inc. Yoder Brothers, Inc.

Zelienople Greenhouses

Projects and Grants

1990 Research Projects

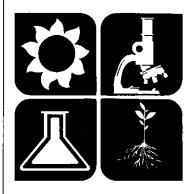
Semi-annual progress reports are required on all Endowment sponsored research projects, with final reports to be submitted upon completion of the work. The purpose of the progress reports is to enable the Trustees and the public to stay abreast of the status of projects, and to assure that objectives remain constant.

While the Endowment Board of Trustees makes final decisions, to assist in this effort the SAF Research Committee has reviewed proposals and made recommendations to the Board for funding since 1978. The Endowment extends grateful thanks and appreciation to SAF for this important support.

In December, 1989, the Endowment began publishing indepth reports on various research areas and, in some instances, specific research projects. They are included with the quarterly newsletter, UPDATE, and sent to all Endowment contributors. The focus is "News You Can Use."

Following is a review of 1990 projects with objectives and some anticipated benefits identified. A total of \$263,550.00 was funded, excluding the programs approved for designated funding (FLORA-STATS, New Crops, NAL Project).

Full reports on any Endowment sponsored project may be received by calling the Endowment office or contacting the research project leader directly.



Total 1990 Grants \$263,550

Breeding

Breeding of New Hippeastrum Cultivars
 Using Diploid Species. Dr. Alan W. Meerow,
 University of Florida. \$10,000

This amaryllis breeding program can benefit the industry by 1) the introduction of novel strains of a proven crop, including cultivars with multiuse (pot plant, cut flower, landscape) potential and 2) expansion of domestic amaryllis production in the U.S.

Economics

2. FLORA-STATS. \$12,000

This industry-wide Statistical information and data base was initiated by the Endowment following the National Research Priorities Summit held in 1987, in which this was identified as the number one need. Overall objectives include 1) development of current information, 2) determination of additional needs, 3) designing methods and format for gathering new information, 4) collection and compilation of data needed for all industry levels, and 5) determining rapid and efficient methods of disseminating information.

Horticultural therapy

3. The Role of Flowers and Plants in the Bereavement Process. Drs. Diane Relf and Candice Shoemaker, Virginia Polytechnic Institute and State University. \$20,000

Funded jointly with the Florist Information Committee of the Society of American Florists, the goal of this research was to determine who sends flowers, when they are sent, and why. Why flowers are sent, including the perceived value of sending and receiving, was the critical objective.

Completed within the year, the study confirmed what had been assumed: that flowers are sent as an expression of sympathy. Results indicate that flowers continue to be an important part of the funeral ritual and 80% of the grief therapists think receiving flowers aids in the grieving process.

The information gained from this research can be used to develop education programs for the public, florists, funeral directors, grief therapists and others who work in the area of deathcare.

New Crops

4. Propagation, Cultural, and Genetic Studies of Tuberous Rooted Pelargoniums. Drs.
Thomas Weiler and Ernie Demaree, Cornell University. \$5,000 - 3rd year

This project's objectives were to develop procedures to rapidly propagate tuberous rooted Pelargoniums and to study new crop opportunities of interspecific hybrids.

Means of propagating a wide range of Pelargoniums were documented. Broader hybridizing opportunities for "zonal" and "regal" geraniums will be feasible because of embryo rescue procedures developed. Some hybrids developed are potential new crops, and these are available to interested industry members.

5. New Potted Crops for Commercial Production. Dr. Allan Armitage, University of Georgia. \$5,000

Efforts in this research focused on providing production and shelf life information covering some potential species for use as pot plants specifically Metrocideros and Hamelia. Work continues, including market studies, and new pot plants may emerge as a benefit.

6. The Control of Flowering and Postharvest
Physiology of Easter Cactus. (Partially
funded in 1988) Dr. Thomas Boyle,
University of Massachusetts, Dr. Dennis
Stimart, University of Wisconsin, Drs.
Terril Nell and James Barrett, University of
Florida. \$10,000

Objectives of this work are to 1) determine the effect of photoperiod and temperature on flowering of several Easter cactus cultivars, 2) investigate the role of fertilizer on phylloclade maturation and flowering, 3) study the postproduction physiology and longevity of flowering Easter cactus, and 4) develop schedules for year-round flowering of Easter cactus. Information produced could extend the range of pot plants available to the American consumer.

7. Forcing Astilbes as Pot Plants. Dr. David Beattie, Pennsylvania State University, Drs. Terril Nell and James Barrett, University of Florida. \$5,750

Objective one of this work was to 1) compare forcing times and flowering qualities of recently introduced astilbe with standard cultivars and 2) determine how many crown eyes must be propagated to provide a sufficiently large floral display in 4" and 6" pot sizes. Objective two was to 1) determine optimum chilling times for late flowering low growing *simplicifolia* hybrids, and 2) determine if GA₃ soil drenches can effectively substitute for chilling time, and at what concentration. Results thus far suggest that all *simplicifolia* hybrids would make excellent pot plants.

Pest Management

8. Plant Resistance for Management of Whiteflies on Ornamentals. Dr. John Sanderson, Cornell University. \$17,000 - 3rd year

The goal of this research is to aid in the control of whiteflies with less insecticides, and possibly generate useful information in breeding for resistance. The project leader is in frequent communication with Dr. Parrella at UC Davis (project leader for the IPM program, #11 below) to assure complimentary efforts and minimize overlap.

9. Controlling Pythium with Beneficial Soil Bacteria. Dr. Virginia Lohr, Washington State University. \$6,500 - 3rd year

The objective of this work is to study the effectiveness of a bacterium (V14) that reduces *Pythium* damping-off in several varieties and species of Dianthus and in Marigold. Anticipated benefits include the use of beneficial bacteria to reduce recontamination of treated media, prevent colonization of plant roots by *Pythium*, decrease phytotoxic effects from fungicides, and reduce the need for fungicides for *Pythium* control. These beneficial bacteria could be used commercially to help produce rapidly-growing, healthy, and attractive plants if the conditions that promote the beneficial responses can be identified.

10. Control of Tomato Spotted Wilt Virus in Floral Crops. Dr. James Moyer, North Carolina State University. \$25,000 - 2nd year

Initial work identified a previously unrecognized strain of TSWV and made antisera available to the industry. Current work is leading to the development of resistant cultivars. (Loss of crops due to this virus is well-documented worldwide. NC State currently has the only lab in the U.S. with a major research effort directed at the control of TSWV-I type.)

11. The Development of Integrated Pest Management Strategies in Floriculture. Dr. Michael Parrella, University of California, Davis. \$40,000 - 3rd year

This major project covers a broad range of insect and mite pests attacking major floriculture crops in the U.S. An objective is to bring biological control down from its "pie-in-the-sky" reputation into something practical for producers. At the same time, specific studies are underway for biological control of aphids, whiteflies, (sweetpotato and greenhouse) and western flower thrips.

12. An Analysis of Spray Application Methodology for the Greenhouse: Air-Carrier, Electrostatic Sprayers. Dr. Ken Giles, University of California, Davis. \$7,500

The researcher is investigating the feasibility of using electrostatic applications of biorational materials (oils, soaps, botanical insecticides, etc.) to control insects and mites.

Post Production Studies

13. Physiological and Hormonal Factors Related to Longevity of Flowering Pot Plants. Drs. Terril Nell and James Barrett, University of Florida. \$8,000 - 3rd year

This project is focusing on 1) relating physiological parameters (photosynthesis, dark respiration, carbohydrate levels) to increase longevity of flowering pot plants, and 2) evaluation of the effects of exogenous growth substances on extending the longevity of flowering pot plants.

14. Post Greenhouse Evaluations of Forced Bulbous Plants. Dr. Terril Nell, University of Florida, and Dr. August DeHertogh, North Carolina State University. \$5,000 -2nd year

A joint project between two universities, the basic objective is to establish a comprehensive data base to determine the effective home-life of selected forced bulbous and tuberous flowering pot plants. Success will provide the industry with proper data for marketing and utilization of these plants, resulting in increased consumer satisfaction and expanded sales.

Production Technology

Accelerating Growth of Plug Annuals Through Carbon Dioxide Fertilization. Dr. Allan Armitage, University of Georgia. \$6,000

The objective of this work was to determine if CO_2 is effective in accelerating growth of plug seedings and, if so, for how long and at what concentration CO_2 should be applied. Benefits include enhanced growth if CO_2 is shown to be effective in greenhouses.

16. Photoperiodic Control of Vegetative and Reproductive Growth in "NonStop" Cultivar Series of Begonia x Tuberhybrida. Dr. Meriam Karlsson, University of Alaska. \$4,000

A one-year project, objectives were to 1) determine the required duration of short day conditions to induce plant dormancy and tuber formation in seed propagated cultivars of *Begonia x tuberhybrida*, and 2) determine the most sensitive plant stage for induction of plant dormancy by short day conditions in seed propagated *B. x tuberhybrida*. (Many recommendations for production of these popular seed propagated cultivars are based on experiences with tuber propagated cultivars.)

Publication of results from this research is expected early in 1991.

17. Innovative Techniques Using Temperature and Light Quality to Control Plant Heights in Floriculture Crops. Dr. John Erwin, University of Minnesota. \$5,000

Another one-year project, objectives were to 1) understand how red, far red, and blue light affect stem elongation and development rate of floriculture crops, 2) to determine how low and high temperature pulses during the day affect stem elongation and development rate, and 3) to determine the interaction between timing light exposures during the night and temperature pulses during the day on stem elongation and flowering of crops.

Publication of results from this research is expected early in 1991.

18. Floriculture Environmental and Modeling Research. Drs. John Biernbaum and Royal Heins, Michigan State University. \$35,000 - 2nd year

This program deals with two areas: 1) to define changes in irrigation and fertilization practices with a view toward improved water quality; and 2) continued investigations into understanding how temperature and light can be used to regulate plant growth. In its second year of Endowment sponsorship, it is anticipated that results in each area of the project will have both immediate and long term benefits for the entire floral industry.

Production of Virus-free Alstroemeria. Dr. Mark Bridgen, University of Connecticut, Drs. Robert Langhans and Kenneth Horst, Cornell University. \$5,000

Objectives of this project were 1) to identify the virus or viruses present in Alstroemeria "Endowment Series", 2) to determine how they are transmitted, 3) to eliminate the viruses, 4) to assay Alstroemeria produced from the "Endowment Series" to guarantee they are virusfree, and 5) to produce pathogen-free stock plants in vitro and in vivo and grow in a manner to prevent reinfection. (Work funded between 1985-88 produced some new Alstroemeria cultivars, and one was selected and named the "Endowment Series" in honor of the Endowment. Just prior to introduction of the series, virus-like symptoms were found and this work deals with the problem.)

1990 Education Projects

Through the Mosmiller Scholar Program, sponsorship of the FFA scholarship and floriculture proficiency award, support for the Intercollegiate Flower Judging and Floral Design Contest, the NJHA and AHTA the Endowment continues to bring a focus on the floral industry and encourage youth to consider it as a career. Educational projects funded in 1990 follow.

- First National Symposium on the Role of Horticulture in Human Well-being and Social Development, Dr. Diane Relf, Virginia Polytechnic Institute and State University. \$4,000
- 2. Sabbatical: Dr. James Barrett, University of Florida. \$7,500
- 3. Mosmiller Scholar Program (allowed for 10 students, but only 4 participated during 1990). \$4,800
- 4. Intercollegiate Flower Judging and Floral Design Contest. \$4,300
- 5. National Junior Horticultural Association Support. \$500
- 6. American Horticultural Therapy Association Support. \$500
- 7. SAF Floricultural Booth at the National FFA Convention, \$2,000
- 8. One Scholarship for Floriculture Study through the National FFA. \$1,000
- 9. One quarter support for the FFA National Floriculture Proficiency Award. \$4,200
- 10. Research Advisor to the SAF Research
 Committee and the Endowment, \$3,000



The winning team of the 1990 Intercollegiate Judging Contest (l to r): Cheri Subler, Andy Moreno, Martin Cysewski, Coach Virginia Walter, Heidi Yoder, Assistant Coach Michael Faigle.



Representing three of the four sponsors of the FFA National Floriculture Proficiency Award, including the Endowment, John L. Tomasovic, Sr., John L. Tomasovic, Sr. Florist, St. Louis, Missouri, congratulates the 1990 winner, Dan Pearson, Olympia, Washington.



Jennifer Bergmann, winner of the \$1,000 FFA Scholarship for 1990, sponsored by the Endowment. Jennifer is from Clayton, Wisconsin, and began her first year of college at the University of Wisconsin, River Falls, in the Fall of 1990, after receiving the scholarship.

Special Projects

The Endowment policy continues to be to **emphasize the development of the Endowment**. However, in 1982, the Board determined that designated funds may be received to support projects approved by the Board for such funding.

Two long term **designated funding** programs were established with cooperative agreements signed between the Endowment and the U.S. Department of Agriculture in 1984: **New Crops Development** at the Florist and Nursery Crops Laboratory and **A Centralized Research Information Data Base** at the National Agricultural Library.

Responding to the expressed desires of industry as determined at the National Research Priorities Summit held in 1987, the Endowment undertook the first step in development of an industry-wide data and information base in the latter half of 1989. Recognizing the need to have the cooperation and financial support of many industry companies and organizations, the effort was dubbed "Together to Gather," and this continues as the underlying theme today. The name selected and registered with the U.S. Patent and Trademark Office for the data base is **Flora-Stats**.

New Crops

Sponsored jointly by the Society of American Florists (SAF), USDA and the Endowment, this program concluded its fifth year in mid-1989. A new 5-year contract was signed for 1989-1994, and calls for \$30,000 per year from industry to be matched by USDA. Many firms and organizations have provided the necessary industry support for this program. SAF serves as industry liaison.

NAL Data Base

Dubbed the Floriculture Information Connection, work continues on developing this centralized research and education information data base at the Library. Current activity involves updating the annotated bibliography on marketing of floricultural products and documenting Endowment-sponsored research and education grants awarded each year. Initial funding for the program was provided by 5 industry firms and organizations. The Endowment serves as industry liaison.

Flora-Stats

The first step in developing Flora-Stats was identification of a firm to handle the data that would be gathered. Ernst & Young was selected. The wire service segment of the industry appeared to be the logical place to begin. All industry wire services were invited to participate and four agreed, providing not only data but monetary support as well: American Floral Services, Inc.; Florafax International; Florists' Transworld Delivery Association; and Teleflora, Inc.

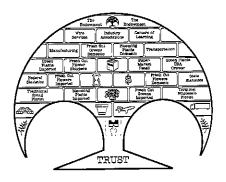
Initially the program involved a monthly study of wire service activity – orders placed and deliveries made. Subsequently, a composite report was prepared for 1988 and 1989 including the number of orders delivered and the average value of each, and reported by the nine basic U.S. census regions.

The second step in the program targets fresh flowers and cut greens movement through floral industry wholesalers. The initial survey of all known wholesalers requested data on gross sales dollars, percent of sales by type of retail outlet, and employment levels for 1988 and 1989. The Wholesale Florists and Florist Suppliers of America endorsed this program fully, including providing monetary support for data collection.

A third step involves a study through the Association of Floral Importers of Florida. Information is being collected on the units and dollar amounts of imported flower shipments through Association members. As with the participating wire services, the AFIF is providing monetary support to the program.

This major undertaking is only in its beginning stages; however, the American Floral Endowment is committed to a continuing and expanded program of statistical gathering for the floral industry.

FLORA-STATS



Floral Industry Statistics

1990

Mosmiller Scholar Program

This program seeks to provide selected, motivated university students, enrolled in floriculture/environmental horticulture degree programs, with a quality, paid professional training experience, including a grant of \$1200 upon satisfactory completion of the training. In addition, the program's objectives include giving firms within the industry an opportunity to observe and work with above-average students under actual employment conditions.

Nearly 180 students have become Mosmiller Scholars through this combination internship-scholarship program. The following four became Mosmiller Scholars during 1990:

1990 Mosmiller Scholars

Michael Crotser
University of Illinois
Trained: Nurseryman's Exchange
Half Moon Bay, California

Sean Moody Colorado State University Trained: Molbak's Greenhouses Woodinville, Washington

Jeffery Raymond University of Nebraska Trained: White's Nursery & Greenhouses Chesapeake, Virginia

Jeffrey Spanbauer North Carolina State University Trained: Dillon Floral Corp. Bloomsburg, Pennsylvania



Michael Crotser



Sean Moody



Jeffery Raymond



Jeffrey Spanbauer

The American Floral Endowment initiated the Mosmiller Scholar program in 1975 as part of its educational funding program for the floriculture/environmental horticulture industry. Earnings derived from monies bequeathed to the Endowment by the late Colonel and Mrs. Walter E. Mosmiller, Jr. provide the main source of financial support for the program.

Col. Mosmiller, a past chairman of the Endowment and a former retail florist in Richmond, Virginia, had always demonstrated a great interest in professional training and encouraged young people to pursue careers in the floral industry.

The Trustees of the Endowment established the program to honor Col. and Mrs. Mosmiller in a meaningful extension of their dedication to the industry. Students who complete the program will be known as *Mosmiller Scholars*.

Total Grants 1961-1990

Research		Education	
University of Alaska	\$4,000	Academic Advisors for SAF	
University of Arizona	7,200	Research Committee	
University of California,		and Endowment \$4	5,000
Davis	203,365	American Horticultural	
University of California,			4,000
Riverside	261,680	ASHS Symposium	500
Clemson University	9,250	ASHS Floricultural Education	
Colorado State University	76,800		1,136
University of Connecticut	109,841	DuPage Horticultural School	0.000
Cornell University	184,410		0,000
Flora-Stats	164,600		3,700
University of Florida	183,100	_	4,000
The Florida Agricultural Research and Education		FFA Floriculture Proficiency Award 1	7,700
Center	65,500	Intercollegiate Flower Judging	7,700
_	11,000		4,300
University of Georgia University of Hawaii	10,500	International Energy	4,000
University of Illinois	36,500		4,000
Kansas State University	26,000		1,500
University of Massachusetts	14,200	Mechanization Exploration	1,000
Meyer Manhattan Psychiatric	11,200		1,000
Hospital	1,500		2,800
Michigan State University	243,300		0,000
University of Minnesota	63,600	National Junior	_,
North Carolina State Universit			4,500
The Ohio State University	110,000	Profile objectives/guidelines	
The Ohio Agricultural		for modeling	5,000
Research and Development		Publication ISHS Floricultural	
Center	69,500	Workshop Paper	850
The Pennsylvania State			3,750
University	118,792		5,000
Purdue University	16,500		8,749
Rutgers	9,000	Symposium on Role of	
Society of American Florists	66,500	Horticulture in Human	
Texas A&M University	9,250	Well-being/Social	4.000
United States Department of	947 500		4,000
Agriculture	347,500	Tomato Spotted Wilt Virus/	
•Florists & Nursery		Western Flower Thrips	2,000
Crops Lab (297,500)		Symposium (2) 1	2,000
•National Agricultural Library (50,000)		Total \$44	3,485
Virginia Polytechnic Institute		10001	0,100
& State University	57,500		
Washington State University	17,700		
University of Wisconsin	26,700		
University of Wisconsin	,		
Medical College	15,000		
WF&FSA	2,500		
Total \$2	2,596,288		

Total Research & Education Grants 1961-1990 - \$3,039,773.00

A Wise Investment

A review of the work being funded by the Endowment is clear testimony to the value of the dollars contributed in the past.

Contributions make things happen.

There are many ways to support the Endowment, whatever an individual or firm's budget or circumstances may be. Since every member of the floral industry has a vested interest in its future, support for the Endowment, however small or large, by whatever means, makes it possible to take another positive step forward.

CASH CONTRIBUTIONS are welcome any time and in any amount. Pledges over a period of years may easily be arranged with reminder statements issued as desired.

STOCKS, **BONDS & REAL ESTATE** may be designated as gifts to the Endowment and provide excellent ways to brighten your tax picture as well. They are freed from the liability of increased value which would be incurred if these holdings were sold, while a deduction on the tax return can be made at the market value of the properties as recorded by the Endowment.

LIFE INSURANCE provides another meaningful way to make a contribution. You may be able to make a very substantial long term gift in this way, and still build your level of giving from year to year.

A **BEQUEST IN YOUR WILL** makes it possible to have a portion of your estate contributed. This can be handled with a codicil specifying your wishes. The following clause is a typical bequest paragraph:

"I give, devise, and bequeath the sum of ______ dollars (\$ _____) to the American Floral Endowment, an organization incorporated under the laws of the District of Columbia, and designated a 501(c) (3) organization by the Internal Revenue Service.

DEFERRED GIVING programs take many forms, and can be creatively tailored to the individual. Among the more popular programs are Charitable Remainder Trusts and Gift Annuities. Each can provide income for life, immediate tax savings and ultimately a major gift to the Endowment.

MATERIAL CONTRIBUTIONS may also be made in the form of marketable heirlooms, jewelry, objects d'art or other valuables.

All Contributions Are Tax Deductible

The Endowment is a tax exempt organization, and both personal and business contributions are tax deductible. Please feel free to contact the Endowment office for additional information or discuss the different ways to lend support.