

# *the Siberian*

IRIS

vol. 6 no. 3  
Spring 1986



'BUTTER & SUGAR' 1986 MORGAN-WOOD MEDAL WINNER

# THE SIBERIAN IRIS

Volume 6, Number 3

Spring 1986

Officers and Committees .....	2
President's Letter .....	3
Treasurer's Report .....	4
Germinating Siberian Seedlings for Early Bloom and Colchicine Treatment (R. M. Hollingworth) ..	5
New Books .....	8
An Appreciation of Dr. William McGarvey (Harry Kuesel) .....	11
A Listing of William G. McGarvey's Siberian Iris ..	12
Sources for Siberian Irises .....	12
TSI to Accept Advertising .....	14
Publications .....	14
From the Archives--Historical Notes (Currier McEwen), reprint 1972 .....	15
Lady Vanessa and Jewelled Crown--The Inside Story .	22
1986 Membership List .....	22
Editor's Corner .....	40



The Siberian Iris is published semi-annually by the Society for Siberian Irises. Editorial Office is at P.O. Box 398, Wayland Academy, Beaver Dam, WI 53916. Deadlines are February 15 and September 15; earlier receipt of material is desirable. Black- and-white photographs and drawings are welcome; please put return address on the back if they are to be returned. Reprinting is by permission of the writer and the editor, with due acknowledgement.

THE SOCIETY FOR SIBERIAN IRISES

Officers

President: Mr. James Foreman, 1360 West Michaels Rd., Tipp City, OH 45371  
1st V.P.: Mrs. Anna Mae Miller, 6065 N. 16th St., Kalamazoo, MI 49007  
2nd V.P.: Mr. Bernard E. Hobbs, 3303 Westfield Rd., Noblesville, IN 46060  
Secretary: Mrs. Ruth Wilder, 802 Camellia Road, Anderson, SC 29621  
Treasurer: Mr. Gunther Stark, 631 G24 Highway, Norwalk, IA 50211

Directors

Mr. Harry B. Kuesel, 4 Larkdale Dr., Littleton, CO 80123  
Mrs. Carolee Clay, P.O. Box 398, Wayland Academy, Beaver Dam, WI 53916, Editor  
Dr. Currier McEwen, South Harpswell, ME 04079, BAIS Representative  
Mr. Julius Wadekamper, 15974 Canby Avenue, Route 5, Faribault, MN 55021  
Mr. Calvin Helsley, Box 306, Mansfield, MO 65714  
Prof. R. M. Hollingworth, 1015 Windwood Lane, W. Lafayette, IN 47906  
Mrs. Ainie Busse, Rt. 2, Box 13, Cokato, MN 55321

Committees

AIS Bulletin: Dr. Currier McEwen (address above)  
Auctions: Mrs. Ainie Busse (address above)  
Display Gardens: Dr. Don Koza, 1171 E. Idaho Ave., St. Paul, MN 55106  
Historian: Mr. Steve Varner, Rt. 1, N. State Street Rd., Monticello, IL 61965  
Judging Standards: Mr. Julius Wadekamper (address above)  
Nominating Committee: Mr. Donald Koza, Mr. Julius Wadekamper  
Publicity: Ainie Busse (address above)  
Publications: Mrs. Ruth Wilder (address above)  
Registrations and Awards: Mrs. Kenneth Waite, 6 Tow Path Road, Westfield, MA 10185  
Research: R. M. Hollingworth (address above)  
Robins: Mrs. Anna Mae Miller, 6065 N. 16th St., Kalamazoo, MI 49007  
Slides: Calvin Helsley (address above)  
Editor: Mrs. Carolee Clay (address above)

Want to be useful?

Write the Chairman of the committee of your choice!



### THE PRESIDENT'S LETTER

It is with deep pride that I take office as President of the Society for Siberian Irises. The presidents before me have set very high standards that will be difficult to meet.

On December 15 we lost a good friend of Siberian irises and a member of our society. Dr. McGarvey was a charter member, hard worker, and leaves a huge void that we cannot easily fill.

This year has promise of being a banner year for Siberians. Three Siberians won the AIS Award of Merit last year and 13 won HMs. As you know, the AIS Board of Directors agreed with our recommendation and upgraded the Morgan Award to medal status. Nineteen eighty-six is the first year the Morgan-Wood Medal can be presented. Special thanks to Dave Silverberg and Region 19 for making the medal a reality. See the picture of this beautiful medal on page . The cost of the new medal was shared between SSI and Region 19. All of the work in dealing with the manufacturer was handled by Dave Silverberg. Dave, it is a real pleasure to have you on our team.

Our second book, an "encyclopedia" as Harry Kuesel calls it, will be printed this year. I am doing everything possible to have it ready at the San Jose National Convention. Everything seems to snowball on the encyclopedia. What originally seemed to be a simple task has grown to be a gigantic ordeal. What was estimated at 24 to 30 pages has grown by leaps and bounds to something that escapes definition at this time.

And now I want to thank Harry Kuesel for all of the help and guidance he has provided to send me off in the correct direction. Thanks again, Harry.

Regards,

Jim Foreman

1986 TREASURER'S REPORT TO MARCH 1, 1986

On hand, checking account.....\$1975.95

Income

Dues income	\$ 1452.00
Book sales	654.61
Miscellaneous income	124.75
Interest income	297.19
Eastern auction (net)	<u>700.00</u>

Total income.....\$3228.55  
\$5204.50

Expenses

Printing	\$ 1220.84
Postage	593.22
Typing	308.45
Our share of medals	258.00
Copying	34.30
Extra deposit slips	2.30
Safety deposit box rent	5.00
Express and phone calls	95.98
Purchase C.D.	<u>1000.00</u>

Total expenses.....\$3518.09  
On hand (checking account).....\$1686.41  
\$5204.50

On hand (certificate of deposit).....\$5000.00

GERMINATING SIBERIAN IRIS SEEDLINGS FOR EARLY BLOOM  
AND COLCHICINE-TREATMENTS--OR HOW TO FILL THE  
KITCHEN WITH OLD JARS AND OTHERWISE AMUSE YOUR GUESTS

Robert M. Hollingworth

A number of people have asked about how Judy and I go about germinating our seedlings and treating them with colchicine. Our approach is a bit unusual although really not so original in its details. Colchicine treatments are closely based on the methods described by Dr. McEwen for inducing polyploidy in Siberians (e.g., see C. McEwen, *Sib. Iris*, Vol. 2 (8), 286-290, 1968, and Bull. AIS No. 223, 20-23, 1976) with the addition of a suggestion from Bee Warburton on using Clorox to sterilize the seeds. Armed with advice from these oracles, we have developed our own methods, as follows. Although these are described in some detail, there are probably several steps which could be modified, simplified, and generally improved. But, the methods below have worked for us now over several years and seem to have stabilized into a routine approach that may be worth sharing with you. In our hands this method has led to a much lower incidence of infection during germination than the filter paper method described by Dr. McEwen.

1. Seeds are harvested in late July or early August just before the pods split. After leaving the pods to dry with good aeration for several weeks in the house, the seeds are removed and placed in glass jars (spice, baby food, preserve or Mason jars, depending on the number of seeds in the cross which should not be much more than one layer deep in the bottom). The jars are closed tightly and placed in the refrigerator (not freezer) from mid-September for about three months. The seeds at this stage are dry.

2. Early in January the jars are opened and half filled with diluted bleach (Clorox). The bleach is normal strength (5.25% sodium hypochlorite) diluted at a ratio of one part bleach to five parts tap water. This treatment sterilizes the seed surface and the container. It also may speed germination by increasing the permeability of the seed coat and possibly destroying germination inhibitors. After 12 to 24 hours, the bleach is drained off the seeds and they are washed two or three times with water that has been "sterilized" by boiling for about 20 minutes and cooling under a cover. The jar is left sealed and half full of water. Over the next week the sterile

water is changed every one-two days before finally draining until the jars are almost dry.

3. The jars are kept closed at room temperature (65-75° days and 60° nights in our case) with typical kitchen lighting. The seeds begin to germinate within 7 to 10 days. Generally germination is well advanced within a month, but in some cases (particularly a few tetraploid crosses) three months may pass before germination begins--be patient. It is beneficial to rinse the seeds occasionally with sterile water, especially if the small amounts of residual moisture in the jars become brown or murky, or if the seeds start to dry out. After germination is established, the jars are placed around a 100-watt incandescent light bulb which is on 24 hours a day.

4. Most jars remain sterile under these circumstances, but a few will develop an infection--generally fungal. This can be cured in most cases by re-adding sterile water and shaking gently with a few grains of Benlate (benomyl fungicide). The Benlate appears to have no adverse effects on germinating seedlings, even in considerable overdoses. After a few hours, the fungicide suspension is removed and the seedlings washed once briefly with water and re-drained. This can be repeated if necessary and should handle most problems.

5. At this stage, you can either move to the colchicine treatments or simply leave the seeds growing in their sealed system before planting up. In the latter case they will prosper for several weeks growing on the energy reserves in the seed. They can be conveniently transferred to flats when the shoot is one to two inches high. The method used to obtain early maturity in the seedlings has been described by Dr. McEwen (Bull. AIS, No. 203, 65-66, 1971).

6. Seedlings are planted out in plastic flats with preformed pots (Growing Systems Inc. or equivalent from Gloeckner Co., 15 East 26th Street, New York, NY 10010)--pots with a 1 7/8 inch top diameter that come 51 to a 12- by 20-inch flat work well. A typical peat moss-based semi-sterile soil mix (Jiffymix, Pro-mix etc.) which contains some starting nutrients and has a pH between 6.0 and 6.5 is used. Because we have hard alkaline water in our region (pH 7.7) we add a small amount of hydrochloric acid to lower the pH to about 6.5 when watering. Most places blessed with better water will not need to do this. Miracid or any other soluble complete fertilizer can be given every week or two to maintain good growth. We are fortunate enough to have a small attached greenhouse and this is where the seedlings are grown from February through to April, under the benches with additional fluorescent lighting. However, a heated basement with some

fluorescent lighting for plants should also work. The plants are moved outside to harden off in April for lining out in late May. By then with good growth they should be 6 to 10 inches high and in some cases are even throwing side shoots.

7. Colchicine treatments are conducted essentially along the lines described by Dr. McEwen. Germinating seeds are selected as soon as the radical is clearly elongated (about 5 mm) and are wrapped loosely together inside several layers of cheesecloth wetted with sterile water and kept inside the germination jar. These seeds are inspected daily for the first signs of emergence of the tiny green shoot. At that stage they are transferred to small jars, colchicine solution is added (generally 0.04%), and the jar is closed and placed under the incandescent lamp for six to nine hours. The colchicine solution is discarded, the seeds are washed at once a couple of times in tap water, then soaked with two or three changes of water over the next 24 hours to remove the excess colchicine. After draining the last wash water, they are to be left, sealed in the jars, for two or three weeks before planting. Infection at this stage is extremely rare. This delay has several advantages over immediate planting--the larger seedlings are much easier to handle and plant, and it is easy to see which have been affected by the colchicine treatment by the stunted "onion-like" swollen shape of the shoot. If desired seedlings growing normally and lacking this clear effect can be discarded as unlikely to yield polyploids. Severe damage to the growing tip of the root will also be observable. We do not discard these seeds routinely, but this might be desirable--or the root tip could be excised, perhaps leading to the regeneration of a more normal root with better growth potential. The treated seedlings are planted as described before, but in flats with smaller pots (96 per flat). Many will die, but eventually a normally organized shoot will appear in the survivors and growth will proceed. Many will show a degree of tetraploidy as judged by the plant's growth characteristics, pollen size, and ability to cross with established tetraploids. Some will be fully tetraploid. A point worth noting is that different crosses vary in their responses to colchicine. The cited amount of 0.04% is a good starting point, but by delaying the planting of the treated seedlings, one can observe the effects of the initial treatments. If too few seedlings are responding, a rise to 0.05% or 0.06% is needed; more frequently the effect is too extreme at 0.04%, with every seedling severely stunted and probable survival low. In this case 0.03% should be tried on later batches. We look for a concentration where perhaps 20% of the seedlings are unaffected while others are strongly stunted and deformed. This ability to check progress is even more important in



trying for tetraploidy with new types of irises; e.g., we are still looking for a low enough dose to treat *I. tectorum* seedlings which seem to be extremely sensitive to the toxic effects of colchicine.

Since colchicine is not routinely available and has some potential human toxicity (including possible carcinogenicity) which necessitates considerable care in its use, a more readily available and less toxic alternative would be useful. The herbicide Treflan (active ingredient of Preen) acts on plants in the same way as colchicine by preventing the separation of chromosomes at cell division. Seedlings poisoned with Treflan look just like the colchine-treated seedlings --with stunted, swollen shoots and root tips. We are currently running some tests with Treflan in this area and I will report back if anything promising results.

8. This method works well for germinating some other types of irises. We have had success using it with *I. laevigata*, *I. setosa* and *I. tectorum*, but not with Pacific Coast Natives or with Louisianas.

All this may seem picky and time-consuming. To some degree it is. Inducing tetraploidy necessarily involves more fiddling around than simply growing up seedlings. However, even for those who do just want to grow up a few seedlings from some bee pods (and isn't that how we all got started?), the "in-the-jar" method has something to offer. You can watch the whole process as it unfolds, and you will know at once what has and hasn't germinated; and if, like us, you have a limited area available for growing seedlings, you will know early in the spring just how many seedlings of what kind you will have for lining out and what space will be needed. Also, you will probably see the seedlings flower earlier. The percentage of plants raised in this fashion that flower one year after planting out (two years after the initial cross is made) varies with growing conditions but has ranged from 25% to 65% for us. This gives a terrific start in evaluating the next generation.

#### NEW BOOKS

Volume I, Techniques for Plant Propagation and Breeding, by David Evans.

Volume II, Handbook of Plant Cell Culture (Crop Species), by William R. Sharp, David Evans and Yamata. \$45.00.

Macmillan, Front & Brown Streets, Riverside, New Jersey 08370; 866 Third Avenue, New York, New York 10022 (1-212-935-2000)

SOURCES FOR SIBERIAN IRIS

The following is a list of sources for purchasing Siberian Irises. This list was compiled by Anna Mae Miller due to many requests by members of the robins she directs. (Ed. note: If anyone can add to this list, drop me a card with name and address of source, and we will add it to the list.)

ADAMGROVE  
Eric & Bob Tankesley-  
Clarke  
Rt. 1, Box 246  
California, MO 65018

AITKEN'S GARDEN  
608 NW 119 St.  
Vancouver, WA 98685

BELLAGAMBA'S IRIS GARDENS  
11431 Old St. Charles  
Bridgeton, MO 63044

BORBELETA GARDENS, INC.  
15974 Canby Ave., Rt. 5  
Faribault, MN 55021

BUSSE GARDENS  
635 East 7th St.  
Route 2, Box 13  
Cokato, MN 55321

CARROL GARDENS  
P.O. Box 310  
Westminster, MD 21157

CHEHALEM GARDENS  
Tom and Ellen Abrego  
P.O. Box 693  
Newberg, OR 97132

COOPER'S GARDENS  
212 West County Road C  
Roseville, MN 55113

ENSATA GARDENS  
9823 E. Michigan Ave.  
Galesburg, MI 49053

GEORGE C. BUSH  
1739 Memory Lane Extd.  
York, PA 17402

HILLSVIEW GARDENS  
22714 SE Borges Rd.  
Gresham, OR 97030

ILLINI IRIS  
D. Steve Varner  
RR 3, Box 5  
N. State Street Rd.  
Monticello, IL 61856

IMPERIAL FLOWER GARDEN  
202 N. 4th St., Box 255  
Cornell, IL 61319

JOE PYE WEED'S GARDEN  
Marty Schafer & Jan Sacks  
45 Elm St.  
Bedford, MA 01730

LAURIE'S GARDEN  
Lorena M. Reid  
41886 McKenzie Hwy.  
Springfield, OR 97477

McMILLEN'S IRIS GARDEN  
RR #1  
Norwich, Ontario NOJ 1P0

MELROSE GARDENS  
309 Best Road South AA  
Stockton, CA 95205

MILLER'S MANOR GARDENS  
Roger & Lynda Miller  
3167 U.S. 224  
Ossian, IN 46777

— continued on page 13



## An Appreciation of Dr. William G. McGarvey

1904-1985

by Harry B. Kuesel

Dr. William G. McGarvey, Professor Emeritus, State University of New York (at Oswego) died on December 15, 1985. He was a native Pennsylvanian, who graduated from Ursinus College and from Temple University. He moved to Oswego, New York, in 1941 and became a pillar of the State University's Psychology Department for more than 30 years. He also was very active in AIS Region 2 serving as RVP and President of the Empire State Iris Society. He was also chairman of the AIS Syracuse Convention in 1958. He was an authority on judging standards for Siberian irises and also a past president of the Society for Siberian Irises.

With his wife Esther, Bill McGarvey helped maintain an iris booth at the annual New York State Fair and helped promote reblooming irises, especially those that rebloomed in early September when the fair was usually held. It was through this interest that he met Edwin Rundlett, who led an AIS Robin for many years. I first met Bill through this same robin in the mid-fifties. He started to concentrate on Siberian irises right after the 1958 convention, and registered 28 of them with the American Iris Society. He was always too involved in other activities to introduce them so I started to introduce them for him through Old Brook Gardens in 1963 and continued to work with him introducing Siberians until 1976 when I had to discontinue my commercial gardening activities.

Bill was very interested in applying Mendel's genetic theories and decided to work with Siberian irises because they were all diploid at the time he started, and he could more accurately predict the results. He was one of the first breeders to recognize that the basic reason Siberian irises showed no significant improvement in form for so many years was that they selfed very readily and the bumble bees always seemed to get there first. So he started a carefully planned line breeding program with Siberians, and Dewful, which won the AIS President's

Cup in 1970, was a direct result. It also went on to win the Morgan Award that same year. Perhaps the high point in his iris career is shown in the portrait showing him standing behind the President's Cup and displaying Dewful, Ego, and Super Ego, all Morgan winners shortly after he received this award, the first time ever given to a Siberian iris.

Bill was the first breeder to plan a program to develop pink Siberians by intercrossing White Swirl with red lines from Royal Ensign. His Augury was the first Siberian to even get close to pink, and it received the Morgan Award, followed by Pink Haze, a better pink, a few years later.

Then tragedy struck when Esther McGarvey died in 1977. Bill was griefstricken. But his will to live, and develop better Siberians was restored when he met and married Elsie in New Smyrna Beach, Florida, and he was back breeding better Siberians again. His very plush maroon red, Jamaican Velvet, was one of the best Siberians at the AIS Indianapolis convention last year.

Bill McGarvey was a very thoughtful, considerate, and friendly person who made his mark in the iris world, and we will miss him greatly.

---

#### Appendix: William G. McGarvey's Siberian Irises

(28 registrations, 22 of which have  
been introduced to date)

AUGURY, r. 1973, introduced Old Brook Gardens, 1974  
BLUE BURN, r. 1965, introduced Old Brook Gardens, 1968  
BLUE CHANTEUSE, r. 1975, introduced McGarvey, 1977  
BLUE WILSON, r. 1972, introduced Old Brook Gardens,  
1972  
DEWFUL, r. 1965, introduced Old Brook Gardens, 1967  
EARTHSHINE, r. 1969, introduced Old Brook Gardens,  
1975  
EGO, r. 1965, introduced Old Brook Gardens, 1966  
ESTHER C.D.M., r. 1981, introduced McGarvey, 1982  
FORETELL, r. 1969, introduced Old Brook Gardens, 1970

FORREST SCION, r. 1970, introduced Old Brook Gardens,  
 1970  
 GULLS WAY, r. 1975, introduced McGarvey, 1982  
 ID, r. 1965, introduced Old Brook Gardens, 1969  
 JAMAICAN VELVET, r. 1983, introduced Borbeleta Gardens  
 and McGarvey, 1985  
 JANE BONSAI, r. 1975  
 JEWEL OF HAPPINESS, r. 1973  
 KING'S FORREST, r. 1965, introduced Old Brook Gardens,  
 1969  
 LYDIA WINTER, r. 1976, introduced McGarvey, 1979  
 MAGGIE SMITH, r. 1976, introduced McGarvey, 1979  
 NELLIE E., r. 1963  
 PINK HAZE, r. 1969, introduced McGarvey, 1980  
 PINK SNOWTOP, r. 1969  
 RED PASSION, r. 1973, introduced Old Brook Gardens,  
 1974  
 ROANOKE'S CHOICE, r. 1975, introduced Old Brook  
 Gardens, 1976  
 ROBBIE RAYMOND'S RED, r. 1983  
 SUPER EGO, r. 1965, introduced Old Brook Gardens, 1966  
 TEMPER TANTRUM, r. 1969  
 WING ON WING, r. 1969, introduced Old Brook Gardens,  
 1972  
 YANKEE DOODLE BOY, r. 1976, introduced McGarvey, 1979



Sources for Siberians....cont. from page 9

OLD DOUGLAS PERENNIALS  
 Mrs. Ronald F. Miller  
 6065 Old Douglas Road  
 Kalamazoo, MI 49007

THE IRIS POND  
 Clarence Mahan  
 7311 Churchill Rd.  
 McLean, VA 22101

PLEASURE IRIS GARDENS  
 425 East Luna St.  
 Chaparral, NM 88021

TRANQUIL LAKE NURSERY  
 45 River St.  
 Rehoboth, MA 02769-1395

SHIRLEY POPE  
 Pope's Perennials  
 39 Highland Ave.  
 Gorham, ME 04038

# TSI ACCEPTING ADVERTISING

The Siberian bulletin will be accepting horticulturally related advertising with its Spring bulletin.

Acceptance of submitted advertising will be at discretion of the editor.

All advertising submitted must be camera-ready (black-and-white only!). If original art is to be returned, a self-addressed, stamped envelope of proper size must be enclosed with ad. The rates are as follows:

Full page ad 4½" x 7¼" .....	\$50.00
Half page ad 4½" x 3½" .....	\$30.00
Quarter page ad 4½" x 1 3/4".....	\$20.00

If you have any questions about advertising, please contact the editor before sending any art!

Note: Any photos to be used in ads should be shot at 75-line screen.

## **Publications**

Back issues: All back issues will be \$1.50 each if available. Some of the early issues are no longer available. The Judging Standards should be ordered from the A.I.S. Checks for all publications, payable to the Society for Siberian Irises, should accompany all orders. Send to the Publication Office, Mrs. Ruth Wilder, 802 Camellia Road, Anderson, SC 29621 except for SIBERIAN IRISES, by Currier McEwen, which should be ordered from Mr. Julius Wadekampe, 15974 Canby Lane, Route 5 Fairbault, MN 55021. Price for this, by mail, is \$7.00 including postage and handling.

## — From the Archives —

### H I S T O R I C A L   N O T E S

Currier McEwen

Recently I became interested in learning who the hybridizers of Siberian irises have been and something of their interests and practices. This article is the result. Except as noted below, the data presented in the two tables were derived from a detailed study of the Check List of Siberian irises, compiled by Peg Edwards and her helpers, which was published in four installments in *The Siberian Iris* Vol. 3, numbers 1, 2, 3 and 5, from the Spring Issue of 1970 to the Spring issue of 1972. Peg Edwards has confirmed that, with the exception of possible oversights, this first Check List includes all Siberians of record through 1960 and also most of those registered between 1961 and 1970, but not all. I have therefore obtained the additional information needed to round out that decade from the lists of registrations in individual issues of *The Siberian Iris* and by consulting Peg Edwards. Only bona fide listings of recognized cultivars as shown in the Check List in capital letters have been counted. In the tables I have included all breeders and Siberians of record through 1900 as a group but after 1900 have listed them by decades. Table I gives the names of the hybridizers and, in parentheses after each name, the number of registrations\* separately for 28 and 40 chromosome cultivars and tetraploids, and those from 'wide crosses' between 28 and 40 chromosome ones or between Siberians and irises of other series. The parentheses also show, by K, those from crosses for which both parents were known. If there is no K or indication of chromosome number in the parentheses these cultivars were of the 28-chromosome group and the parents were not known. I must emphasize that I have included among the cultivars of known parentage those in which the registration data show the parents as seedlings and not as named plants when it is clear that the hybridizer knew and selected the seedlings used. As an example I refer to the registration of Kitton. He, in common with most hybridizers, used many of his unnamed seedlings as parents and they are shown in the Check List merely as seedlings. However, it is known (2) that he used only seedlings which he selected as good parents for his purpose; in other words they were not 'bee' or 'natural' crosses.

In Table II the information in Table I is given in numerical form and in addition the percent of



hybridizers using known parents for all or some of their crosses, and the percent of cultivars derived from such crosses are recorded. It should be noted that in the data regarding hybridizers in this table those making wide and tetraploid crosses usually are included also in the columns for those working with 28- or-40 chromosome Siberians or both, with the result that adding all numbers for a given decade gives a figure larger than that in the 'Total No.' column.

*Early History*--McGarvey (1) has suggested that since most species of Siberian irises are native to Asia it is probable that the use of Siberians as garden subjects started there. However, we have no records to confirm this. The first Siberian iris species of record is *I. sibirica*, named by Linnaeus in 1753, followed by the other 28 chromosome species, *I. sanguinea* which was called *I. orientalis* by Thunberg in 1794 and given its present, correct name by Donn in 1811. The other eight species, or presumed species, which comprise the 40-chromosome group of Series

*Hybridizing Practices*--The Check List reflects the fact that the establishment of the American Iris Society as the official agency for registering Siberian Irises did not occur until 1920 or very soon thereafter. Prior to that, cultivars were merely named and, sometimes, introduced. Indeed some listed after that date were introduced but never registered and others were registered several years after their Sibiricae followed between 1849 and 1933. Excluding these species, 17 Siberian irises are listed in the Check List as known before 1901 in association with the names of eight men. All of the 17 named cultivars were of the 28-chromosome group and probably all were selected or collected clones and not the result of planned hybridizing. The earliest of the 17 was SIBIRICA ALBA, recorded in 1809, but the name of the pioneer responsible for it is not listed. Next was the dwarf *I. sibirica* named ACUTA by Wildenow in 1813. This was followed by HAEMOTAPHYLLA (Fischer) in 1825, by NERTCHINSKIA (Lodd), a form of *I. sanguinea*, in 1832, and by TRIGONOCARPA (noted by Braun, Koch, and Bouche), a clone of *I. sibirica*, in 1853. Following a lapse of another 20 years, a new group of cultivars is recorded. Chief among them are those of Van Houtte who named six, including NIGRESCENS, in 1875 and '76, and of Dammann who named EUTERPE in 1874 and LEUCANTHA in 1894. The list concludes with COREANA, collected by Leichtlin in 1886, GEORGE WALLACE introduced by Wallace in 1894, and last but certainly not least the lovely white form of *I. sanguinea*, SNOW QUEEN, collected by Barr in 1900. It is noteworthy that plants bearing the names of at least four of these are still in commerce, namely ACUTA, NIGRESCENS, GEORGE WALLACE and SNOW QUEEN.

introduction. By 1930, however, the practice of making introductions only after registration was well established.

A glance at Table I shows that most hybridizers through the years have registered only one or two cultivars and that single registrations usually were of plants resulting from natural crosses. This suggests that those registering them were not deeply involved in hybridizing Siberians but had planted seeds from some 'bee-set' pods and had been pleased with one or two of the seedlings. On the other hand, many growers were obviously seriously devoted to developing new cultivars. Among these were Perry and Gersdorff, each of whom named 49, and Mrs. Cleveland who introduced 47. No others in the period covered by this tabulation have come near those records but Wallace and Kitton each registered 21, Preston 20, McEwen 17, McGarvey 14, Spender 11 and Spofford 10; and eight others from 5 to 9. Gersdorff's record is particularly interesting because although he registered 48 only 2 of them appear to have been introduced.

Whereas the hybridizing efforts of most of those named in the Check List were very brief, some extended over two or three decades. Notable in this regard, as shown in Table I, were Cleveland, Dykes, Perry, Preston, Scheffy and Wallace.

*Interest in 28 and 40 Chromosome Siberians*--Table II shows that the 28 chromosome Siberians have been used far more than those with 40 chromosomes. Dykes named three cultivars involving 40-chromosome species in 1914 and Perry introduced 19 from 1922 to 1927 but thereafter only a very small fraction of those introduced yearly were of this type until those of Maurice Kitton and Doris Hansford in England in the 1961 to 1970 decade. A total of 435 cultivars is shown in the Check List through 1970. Of these, 342 or 80% were of the 28-chromosome group and only 20% were 40-chromosome Siberians.

*The Use of Known Parents vs. Natural Crosses*--The results of this analysis were particularly surprising to me. I had long assumed that the early hybridizers used only known parents but that later this practice tended to be ignored until the 1960s when the importance of making planned crosses was again realized. As shown in Table II the parents used for crosses were listed for none of the nine cultivars recorded for the decade 1901-1910, and for only three, or 11%, of the 28 listed for 1911-1920. Similarly only one (12%) of the eight hybridizers of that decade used known parents, and that one was Dykes. Subsequently (see Table II) the percentage of hybridizers using known parents increased steadily from about 25% for the

period 1921-1940 to 33% for 1941-1960 and 55% for 1961-1970. Moreover, as shown in Table II, the percentage of the resulting cultivars after 1920 varied surprisingly little and amounted to close to 50% or more of all cultivars listed in each of the subsequent decades.

It is interesting to note in the tables that crosses of known parents have been used far more often for the 40-chromosome group than for the 28-chromosome Siberians. As examples, both Dykes and Perry (see Table I) listed the parents used for their 40-chromosome crosses but not for the 28-chromosome ones, and this was true of other hybridizers also. In numerical terms 40% of the 342 28-chromosome Siberians registered between 1900 and 1970 had both parents listed whereas this was true of 82% of the 52 registered 40-chromosome ones. One may speculate that this difference in practice was due in part to the fact that in making the crosses of the 40-chromosome group the earlier hybridizers were consciously using different species and wanted to know if they would be compatible whereas the 28-chromosome crosses were usually made with familiar plants or seedlings. One would expect that Dykes and Perry as well as other hybridizers in later decades must have used known parents for their crosses of 28-chromosome cultivars just as they did for their 40-chromosome ones, but if so they were not recorded.

*Waxing and Waning Interest*--Table II illustrates also the varying degrees of interest in hybridizing Siberians since the turn of the century. Both the number of hybridizers and that of registrations rose steadily to a peak of 34 hybridizers who registered 123 cultivars in the 1931-1940 decade. Probably because of World War II, the numbers dropped sharply to 9 hybridizers and 20 registrations from 1941 to 1950. In the past two decades the numbers have gradually increased but by 1970 were still below the peak years.

*Wide Crosses*--This term is used for hybridizing efforts using species or subspecies which do not readily cross. For our purpose these can be considered under two headings: 1. crosses of 28- with 40-chromosome Siberians, and 2. those of Siberians with irises of other series. The first now of record was EETA, a seedling named by Dykes about 1914 although the exact date was not recorded, from a cross of *I. sibirica* x *I. wilsonii*. Three more of these crosses between 28- and 40-chromosome Siberians were recorded by Perry in 1922 and 1924 using compound names made up of the two species as follows: CHRYSO-BIRICA, CHRYSOBIRICA GLORIOSA and CHRYSOBIRICA PURPUREA. Using the same system of naming, Wallace registered SIBULLEYANA in 1934. Two years earlier

Spender registered HELICON, a cross of a seedling from *I. chrysographes* by one derived from the 28-chromosome cultivar EMPEROR; and in 1943 he registered the hybrid AEGEA derived from the reverse cross. No further hybrids from crosses between 28- and 40-chromosome hybrids were noted until the 1960s when Kitton registered MOONSCAPE and McGarvey, FORETELL. The latter is of particular interest because it differs from the others named above in being fertile. Kitton also reported one from a cross of *I. forrestii* by ERIC THE RED (3) which was fertile but he lost it and it was not registered.

Registrations of hybrids resulting from crosses between Siberians and irises of other Series have been somewhat more numerous. Perry named two: LONGSIB, from *I. longipetala* x *I. sibirica* in 1925, and MARGOT HOLMES, from *I. chrysographes* x *I. douglasiana* in 1927. He also recorded a successful cross of SNOW QUEEN x *I. hartwegii*. Williams recorded LILLABELLE, from EMPEROR by *I. versicolor* in 1934 and Simonet registered ORIENTOSA from *I. sanguinea* x *I. setosa* in 1938. Two have been recorded as being hybrids between Siberian and Louisiana irises, namely CLARET, of Mrs. Wiswell in 1966, and GERALD DARBY, registered for Mr. Darby by Coe in 1967. However, Mrs. Wiswell subsequently reported that CLARET was from two 28-chromosome Siberians (4) and the registration was corrected accordingly. I believe some question has been raised also about the parentage of GERALD DARBY. One more such wide-cross hybrid, HOLDEN CLOUGH, was registered in 1970 by Patton as 'probably from *I. chrysographes* by *I. pseudacorus*.' This conclusion regarding its parentage was based on its physical characteristics but is merely conjectural because it was the result of a natural cross.

By far the greatest interest in hybrids from wide crosses has been in the so-called Cal-Sibes. The first of these, MARGOT HOLMES, which has been referred to above, was awarded the first British Dykes Medal in 1927. There was a long lapse of time before the modern interest in them developed, largely through the efforts of Jean Witt, Leona Mahood and Lorena Reid on the West Coast. Three were registered from 1966 to 1970, SWIRLING MIST by Witt and FAIR COLLEEN and SPACE CHILD by Mahood. In those crosses it seems natural that the Siberian parent has been a 40-chromosome cultivar since the Californicae also have 40 chromosomes. Only one cross of an iris of Series Californicae by a 28-chromosome Siberian has been registered, namely ROYAL CALIFORNIAN, from *I. douglasiana* x CAESAR'S BROTHER, by Lenz in 1955.

*Tetraploids*--The final topic which I will consider is that of tetraploid Siberians. The nature of tetraploidy and methods for inducing it are dis-

cussed elsewhere (5,6). The first one, registered as TETRAFOR by the late Max Steiger in 1964, was induced with colchicine from a clone of *I. forrestii*. Unfortunately it was lost during his long illness. At the same time McEwen (5) was developing tetraploidy in plants of the 28-chromosome group. The first of these colchicine-induced cultivars bloomed in 1962 but none was registered until 1969 when the level of second generation tetraploidy, i.e., seedlings from crosses of induced tetraploids, had been reached. Only three were registered by 1970 but more have subsequently been added.

I have little doubt that I have made errors of commission and omission in this report and will appreciate being informed of any mistake.

### References

1. McCarvey, W. G., The Culture and Hybridizing of Siberian Irises: A Short History and Report on Current Work. Bull. AIS, No. 219, p. 20, October 1975.
2. Kitton, M. E., Further Notes on the Sibirica Sub-Section, Yearbook, B.I.S., 1961, p. 116, and personal communication to this author.
3. Kitton, M. E., *ibid.*, p. 118.
4. Wiswell, G., Notes on Hybridizing Siberians, TSI, Vol. 3, No. 4, p. 5, Fall 1974.
5. McEwen, C., Tetraploidy in Siberian Irises, Yearbook B.I.S., 1966, pp. 77-84.
6. McEwen, C., Further Experience with Tetraploid Siberian Irises, Bull. AIS, No. 213, pp. 52-56, April 1974.

---

\*In the early decades, cultivars were merely listed ones or had been introduced but not registered.

TABLE I. Hybridizers of Siberian Irises by Decades.

---

Before 1901	Barr (1); Braun, Koch & Bouche (1, listed); Dammann (2); Fischer (1); Leichtlin (1); Lodd (1); Van Houtte (6); Wallace (1). Probably most, perhaps all, gave names to selected or collected clones and did not make crosses.
1901-10	Barr (4); Perry (1); Van Wavern (1); Vilmorin (2); Ware (1).
1911-20	Dykes (K:40chr-2,W1); Barnewitz (1, listed); Cleveland (9); Farr (1); Fryer (2); Drelage (1); Perry (16); Royal Tottenham Nurseries (1).
1921-30	Peckham (K:1); Norgan (K:1); Preston (K:15, Not:4); Perry (K:40chr-29,W6, Not:28chr-4);

- Berry (1); Birchfield (1); Bralliar (1); Cleveland (22); Correvon (40 chr-1); Dykes (3); Freeborn (1); Goos & Koenemann (1); Koehler (1); Millet (1); Perry (28chr-4, 40chr-1); Simonet (1); Smith (28chr-1, 40chr-2); Sturtevant (1); Ward (1-collected); Wallace (2); Waterer (1).
- 1931-40 Christie (K:28chr-1, 40chr-1); Craigie (K:4); Gage (K:1, Not:1); Gersdorff (K:48); Loat (K:40chr-1); Morgan (K:1, Not:3); Preston (K:1); Spender (K:W-1, Not:28chr-1); Wallace (K:40chr-6, W-1, Not:28chr-11); Chugai (1, selected); Cleveland (16); Foerster (2); French-Allen (1); Jennings (1); Kellogg (2); Kelway (2); Nesmith (2); Nichols (1); Perry (2, selected); J. Sass (1); Scheffy (3); Sturtevant (2); Tennant (1); Vilmorin (1); Wade (1, selected); Washington (3); Waterer (3); Wayman (2); Whitney (1); Yeld (1).
- 1941-50 Craigie (K:2); Spender (K:28chr-2, 40chr-2, W-1); Whitney (1); Auten-Schroeder (1); Clevenger (1); Hall (1); Scheffy (6); Stone (1); Wallace (1).
- 1951-60 Hodson (K:2); Hutchison (K:5); Kitton (K:1); McCashin (K:1); Shinkle (K:1, Not:1); Stoll (K:7); Cassebeer (3); Edwards (2); Kitton (2); Marx (2); Neel (40chr-1); Steiger (1); Streibach (1); Wheeler (1).
- 1961-70 Brummitt (K:6); Hager (K:2); Hansford (K:40chr-8); Hutchison (K:2); Kitton (K:28chr-10, 40chr-8, W-1); Knock (K:2); McCord (K:1); McEwen (K:28chr-3, 40chr-2, T-3, Not:28chr-7, 40chr-2); McGarvey (K:28chr-10, 40chr-2, W-1, Not:40chr-1); Randall (K:1); Sensenbach (K:1); Steiger (K:7-1, Not:28chr-1); Van de Water (K:1); Varner (K:2); Wiswell (K:1, Not:2); Ziepke (K:1); Carlson (1); Cassebeer (5); Darby (W-1); Delany (2); Harder (1); Mahood (40chr-1, W-2); Mize-Ruggles (40chr-1); Patton (W-1); Peck (1); Reinhardt (1); Rich (1); Spofford (10); Witt (40 chr-1).

---

Numbers of registered or introduced cultivars for each hybridizer are shown in parentheses. 28chr means 28-chromosome group; 40 chr--40 chromosome group; W--wide cross; T--tetraploid; K--both parents known; Not--one or both parents not known. If K is not stated parents were not known; if chromosome number is not stated, the cultivars are of the 28-chromosome group.



## LADY VANESSA AND THE JEWELLED CROWN--THE INSIDE STORY

It was rewarding to see a couple of items on our irises in the Fall 1985 issue of TSI. May I take a few moments to clarify a point or two about the reports? Jewelled Crown (82J2A19) is a colchicine - induced tetraploid with a deep "red" color, a strong gold and white blaze, and unusually flaring and ruffled parts--in fact the iris pictured at the top of the back cover of the Fall issue. Elsewhere in that issue it is described as white--not so, as you can see. A number of people have made nice comments about it and asked when Jewelled Crown will be introduced. As an induced (first generation) tetraploid we will have to make sure that the ploidy level is stable and that it doesn't revert to a diploid with time. So far it has looked good, but it will need a couple more years to make sure. The fact that it is proving excellently fertile both as a pod and a pollen parent for tetraploids is encouraging in this regard.

We were also excited to find that one of our siberian seedlings had won the first Melrose Cup. This is given for the best beardless seedling on the Region 14 (Pre-Convention) tour. The iris that won is another red, Lady Vanessa (2J2B8), a diploid sibling of Jewelled Crown. It is particularly satisfying that a Siberian was the first iris to receive this Award. The real accolades should go to the two hybridizers who provided the parents for this cross--Currier McEwen for Ruffled Velvet and Steve Varner for Showdown. With that kind of start it's hard to miss.

Bob and Judy Hollingworth

### 1986 MEMBERSHIP LIST

86/12  
Abrego, Mr. & Mrs. Thomas  
P.O. Box 693  
Newberg, OR 97132

86/12  
Ahlburg, Mrs. Marlene  
Hohes Feld 22  
3171 Rotgesbuttel,  
West Germany

HON  
AIS HISTORIAN,  
Mr. Larry Harder  
Ponca, NE 68770

HON  
AIS Section Liaison,  
Mr. James Rasmussen  
2112 West 17th  
Wichita, KS 67203

85/12  
Ames, Mr. Paul J.  
21306 Alexander  
St. Clair Shores, MI 48081

85/12  
Anderson Horticultural Library,  
University of Minnesota  
1984 Buford Ave.  
St. Paul, MN 55108

86/06  
Anstry, Mr. Robert L.  
612 N. Pennsylvania Ave.  
Lansing, MI 48912

86/06  
Applebaum , Ms. Mary Lou  
Box 522 Locust Valley Rd.  
Coopersburg, PA 18036

85/12  
Axelrod, Ms. Nancy R.  
17756 Orchard Ave.  
Guerneville, CA 95446

87/12  
Ball, Rhett  
PO Box 7777  
Camden, SC 29020

85/06  
Ballard, Mr. Tony  
3830 N. 3200 W.  
Benson, UT 84335

86/06  
Baron , Mr. John C.  
RD 1, Box 455  
516 Valley Street  
McDonald, PA 15057

85/06  
Barr, Mr. & Mrs. William E.  
1910 Greenspring Valley Road  
Stevenson, MD 21153

86/06  
Barrett , Mr. Jeffrey  
7220 NW 17th  
Bethany, OK 73008

87/12  
Bauer, Mr. Robert A.  
9823 E. Michigan Avenue  
Galesburg, MI 49053

LIFE  
Baukus, Mrs. Peter J.  
10415 West Montana Place  
West Allis, WI 53227

88/06  
Bausch, Mrs. Melvin  
11530 North Laguna DR-21, W  
Mequon, WI 53092

86/06  
Bellagamba, Mrs. August  
11431 Old St. Charles Rd.  
Bridgeton, MO 63044

84/12  
Bellville, Mr. Bruce  
347 Meetinghouse Rd.  
Hinsdale, NH 03451

87/12  
Berlin , Mr. Eckard  
P.O. Box 1155  
7950 Biberach-Riss,  
West Germany

87/12  
Bishop, Mr. Harry  
RR1, Box 27  
71 Basket Street  
Huntington, MA 01050-9706

85/06  
Blanchette, Mr. Leo J.  
223 Rutland St.  
Carlisle, MA 01741

86/12  
Boon, Mrs. Paul F.  
2761 Millbrook Road  
Birmingham, AL 35243

87/12  
Boone , Ms. Nancy W.  
3363 N. 50th Street  
Milwaukee, WI 43216

85/12  
Botting, Mr. Paul M.  
12901 Riffle Ford Ct.  
Gaithersburg, MD 20878

85/06  
Bourne, Mrs. Lillian  
1363 Swigart Road  
Barberton, OH 44203

85/12  
Boyson , Mrs. Eleanor M.  
Route 1, Box 130  
Charlotte, TN 37036

86/06  
Brachey , Ms. Nancy Ann  
2714 Idlewood Circle  
Charlotte, NC 28209

87/06  
Brien, Mrs. George V.  
1 S. 400 Buttercup Lane  
Villa Park, IL 60181



88/06  
Briscoe, Mr. Harley  
Route 1  
White Hall, IL 62092

87/12  
Brodeur, Ernest & Mary  
5 Cottage Place  
Lowell, MA 01852

86/06  
Brookins, Mr. Howard  
N75 W14257 Northpoint Dr.  
Menomonee Falls, WI 53051

86/06  
Brooks, Mrs. Patricia  
102 Jefferson La.  
Ladson, SC 29456

86/06  
Brown, Beatrice S.  
203 8th St., NW  
Arab, AL 35016

85/12  
Brown, Mr. & Mrs. B. J.  
11026 Steele Creek Road  
Charlotte, NC 28210

86/06  
Brown, Mrs. E. G.  
P.O. Box 101  
Palmerdale, AL 35123

85/12  
Bruno, Mr. & Mrs. Russell  
P.O. Box 500  
Madaryville, IN 47957

86/06  
Buchanan, Mrs. Ruby D.  
113 Southoak Drive  
Winston Salem, NC 27107

86/06  
Buck, Mr. Kenneth J.  
5457 Elmwood Street  
Indianapolis, IN 46203

88/06  
Buddington, Dr. Richard S.  
406 Westwood Drive  
Abingdon, VA 24210

85/06  
Bullard, Mr. & Mrs. Ralph T.  
6159 Ridge Way  
Douglasville, GA 30135

84/12  
Bunker, Mrs. Walter  
4721 Bancroft St.  
San Diego, CA 92116

LIFE  
Burch, Mr. & Mrs. James G.  
Box 10003, 717 Pratt Ave., NE  
Huntsville, AL 35801

86/06  
Burkett, Ms. Janice  
P.O. Box 3874  
Amarillo, TX 79116

87/12  
Busbach, Mr. Waltraud G.  
Aeussere Sulzbacher Str. 18  
D-8500 Nuernberg 20,  
West Germany

85/12  
Busge, Mr. Thomas  
Stud Vet Med.  
CH-9553 Bellevusen,  
Switzerland

86/06  
Bush, Mr. George C.  
1739 Memory Lane Extd.  
York, PA 17402

86/12  
Bussee, Mrs. Minie  
R.D. 2, Box 13  
Cokato, MN 55321

88/12  
Butler, Mr. & Mrs. Richard C.  
36 River Ridge Road  
Little Rock, AR 72207

86/12  
Caillet, Miss Marie  
Route 1  
Frisco, TX 75034

86/06  
Calderara, Mr. Carlton B.  
P.O. Box 535  
Greenville, RI 02828

86/06  
Chamberlain , Ms. Kathleen  
P.O. Box 5206  
Orange, CA 92613

85/12  
Chambers, Mrs. William E.  
282 Forrest Road  
Merion Station, PA 19066

85/12  
Champion, Lillian M.  
7234 Vine Street  
Highland, CA 92346

84/12  
Chandler, Mr. Donald  
  
New Gloucester, ME 04260

85/12  
Chaney , Mr. Arnold  
San Diego Tropical Garden  
1321 Country Club Drive  
Escondido, CA 92025

86/06  
Chenoweth, Mrs. Valera  
7606 Central Ave.  
Lemon Grove, CA 92045

85/12  
Chicago Horticultural Society,  
P.O. Box 400  
Glencoe, IL 60022

88/06  
Childers, Mr. & Mrs. W. G.  
Bowles Route, Box 215  
Hamlin, WV 25523

86/06  
Chmielewski, Rev. Edward A.  
Seton House  
715 Crescent St. NE  
Grand Rapids, MI 49503

86/12  
Christchurch Iris Circle,  
Mr. K. P. Scott  
88 Brookside Tee  
Christchurch 5,  
New Zealand

85/12  
Clark , Mrs. Ruby A.  
47 Kuder Avenue  
Akron, OH 44303

86/06  
Clay, Mrs. Carolee  
P.O. Box 398  
Wayland Academy  
Beaver Dam, WI 53916

87/06  
Coble, Mr. John  
9823 E. Michigan Avenue  
Galesburg, MI 49053

85/12  
Coburn , Ms. Patricia  
575 Gorham Street  
New Market, Ontario L3Y 1L1  
Canada

85/12  
Cochrane, Dr. William  
Woodbine  
Queenscliffe Road Road  
Drysdale, Victoria 3222  
Australia

84/12  
Coleman, Susan  
7932 Pineridge  
Clarkston Village, MI 48016

87/12  
Collins, Mrs. H. E.  
R.D. 1, Cambridge Road  
Tauranga,  
New Zealand

88/06  
Cook, Mrs. Aline  
Route 2, Box 203  
Anderson, IN 46011

87/12  
Cook, Verna C.  
6924 Pacific Hwy. E  
Tacoma, WA 98424

86/06  
Cooper, Mrs. Joan  
212 West County Road C  
St. Paul, MN 55113

87/12  
Cooper, Mr. & Mrs. William H.  
2788 Belgium Road  
Balwinsville, NY 13027

87/12  
Copley, Fhoebe  
5428 Murdock  
St. Louis, MO 63109

87/12  
Coward, Mr. & Mrs. Jim D.  
515 West Parks  
Waxahachie, TX 75165

86/06  
Cozuca, Michio  
56 Igadono Ojaka Cho  
Midoriku, Nagoya 459  
Japan

87/12  
Cronin, Mr. Arthur B.  
P. O. Box 431  
10920 Oakwood Drive  
Roscammon, MI 48653

85/12  
Crumpler, Mrs. B. E.  
2521 Wycliffe Ave. SW  
Roanoke, VA 24014

84/12  
Darling, Duane & Gina  
6 Oliver Street  
Bangor, MI 49013

86/06  
Darrow, Mr. Christopher  
Olallie North Farm  
Marlboro Branch Rd.  
South Newfane, VT 05351

85/06  
Davenport, Betty L.  
2013 Road 44  
Pasco, WA 99301

87/06  
Davidson, Mr. B. Leroy  
911 Western Avenue NO 210  
Seattle, WA 98104

88/06  
Davis, Mrs. William E.  
E 507 Broad Ave.  
Spokane, WA 99207

86/06  
deGroat, Mr. Albert F.  
12 High Street  
Brockport, NY 14420

85/12  
Delmez, Mr. & Mrs. Leon  
Rte. 1, Box 211  
Manhattan, KS 66502

88/06  
DeI Papa, Mrs. Luellen  
Star Route  
8815 Doster Road  
Mountain Ranch, CA 95246

87/06  
Denney, Mr. Don  
6225 Vine Hill School Rd.  
Sebastopol, CA 95472

87/06  
Denver Botanic Gardens, Inc.,  
909 York Street  
Denver, CO 80206

90/12  
Dillard, Mrs. Robert  
Bolton Road  
RD 2, Box 493  
Harvard, MA 01451

86/06  
Dore, Mr. Jacques  
256 Terrasse Labrun  
Repentigny, Quebec J6A 3R7  
Canada

88/06  
Duffy, L. J.  
P.O. Box 80183  
Fairbanks, AK 99708

88/06  
Dunn, Mrs. Robert L.  
4828 Jella Way  
North Highlands, CA 95660

87/12  
Duval, Mrs. Mary  
Rte. 1, Box 142  
Dassel, MN 55325

87/06  
Eddy, Mrs. Royce  
5260 Angling Road  
Kalamazoo, MI 49008

86/06  
Edinger, Mr. Phillip  
P.O. Box 637  
Cloverdale, CA 95425

86/06  
Edwards, Mrs. H. L.  
235 Koehl Street  
Massapequa Park, NY 11762

87/06  
Elliott, Mrs. Russell  
P.O. Box 183  
Wapato, WA 98951

86/06  
Elwell, Pamela A. T.  
RR-2, Box 3135  
Oakland, ME 04693

85/12  
Engel, Misses Frances & Mary P.  
136 Pickford Avenue  
Kenmore, NY 14223

86/06  
Englerth, Mr. Lawrence D.  
Route 2  
2461-22nd Street  
Hopkins, MI 49328

85/12  
Ennenga, Mr. & Mrs. James M.  
1621 N. 85th St.  
Omaha, NE 68114

88/12  
Erhardt, Mr. Walter  
Lagenstadt 64  
8581 Neudrossenfeld,  
West Germany

88/06  
Erickson, Mrs. Gustave R.  
2181 Blucher Valley Road  
Sebastopol, CA 95472

85/12  
Fackert, Mr. James  
10555 McCabe Rd.  
Brighton, MI 48116

84/12  
Farrar, Mrs. Miles P.  
P.O. Box 263  
Mount Holly, NC 28120

87/06  
Figge, Mrs. Frank H.J.  
4 Maryland Avenue  
Towson, MD 21204

85/12  
Fluhart, Mr. Danny M.  
Box 221 E. Ruffman Rd.  
Waldorf, MD 20601

86/06  
Fondoble, Mr. & Mrs. C. L.  
Rte. 1, Box 242  
Washburn, MO 65772

85/12  
Foreman, Mr. & Mrs. James J.  
1360 West Michaels Road  
Tipp City, OH 45371-2028

85/12  
Foster, Mr. Harry  
56 Darren View  
Crickhowell Powsy, Wales NP8 1DS  
U. K.

87/12  
Duval, Mrs. Mary  
Rte. 1, Box 142  
Dassel, MN 55325

87/06  
Eddy, Mrs. Royce  
5260 Angling Road  
Kalamazoo, MI 49008

86/06  
Edinger, Mr. Phillip  
P.O. Box 637  
Cloverdale, CA 95425

86/06  
Edwards, Mrs. H. L.  
235 Koehl Street  
Massapequa Park, NY 11762

87/06  
Elliott, Mrs. Russell  
P.O. Box 183  
Wapato, WA 98951

86/06  
Elwell, Pamela A. T.  
RR-2, Box 3135  
Oakland, ME 04693

85/12  
Engel, Misses Frances & Mary P.  
136 Pickford Avenue  
Kenmore, NY 14223

86/06  
Englerth, Mr. Lawrence D.  
Route 2  
2461-22nd Street  
Hopkins, MI 49328

85/12  
Ennenga, Mr. & Mrs. James M.  
1621 N. 85th St.  
Omaha, NE 68114

88/12  
Erhardt, Mr. Walter  
Lagenstadt 64  
8581 Neudrossenfeld,  
West Germany

88/06  
Erickson, Mrs. Gustave R.  
2181 Blucher Valley Road  
Sebastopol, CA 95472

85/12  
Fackert, Mr. James  
10555 McCabe Rd.  
Brighton, MI 48116

84/12  
Farrar, Mrs. Miles P.  
P.O. Box 263  
Mount Holly, NC 28120

87/06  
Figge, Mrs. Frank H.J.  
4 Maryland Avenue  
Towson, MD 21204

85/12  
Fluhart, Mr. Danny M.  
Box 221 E. Huffman Rd.  
Waldorf, MD 20601

86/06  
Fondoble, Mr. & Mrs. C. L.  
Rte. 1, Box 242  
Washburn, MO 65772

85/12  
Foreman, Mr. & Mrs. James J.  
1360 West Michaels Road  
Tipp City, OH 45371-2028

85/12  
Poster, Mr. Harry  
56 Darren View  
Crickhowell Powys, Wales NP8 1DS  
U. K.

87/12  
Fresno Iris Society,  
Dr. John Weiler  
1146 West Rialto  
Fresno, CA 93705

88/06  
Fulton, Mr. Chandler  
21 Hillcrest Road  
Weston, MA 02193

88/06  
Gaddie, Mrs. Anne M.  
601 S. Eighth Street  
Stanton, NE 68779

85/12  
Garvan, Mrs. Francis P. Jr.  
308 Bellaire Drive  
Hot Springs, AR 71901

85/06  
Gibson, Mrs. Barbara  
13253 McKeighan Road  
Chesaning, MI 48616

88/06  
Goldstein, Ms. Libby L.  
4345 Fernbrook Drive  
Mercer Island, WA 98040

88/06  
Goldstick, Mr. David T.  
261 Madison Avenue  
New York, NY 10016

86/06  
Gordon, Ms Evelyn B.  
17193 Mountainside Drive  
Soulsville, CA 95372

85/06  
Goula, Mr. Richard A.  
113 Acacia Drive  
Lafayette, LA 70508

85/06  
Gracy, Mr. Brainard B.  
717 N. Tennessee Blvd.  
Murfreesboro, TN 37130

87/06  
Grant, Ms. Patricia K.  
Center St.  
Goffstown, NH 03045

87/06  
Greenawalt, Ms. Jane F.  
779 N. Charlotte St.  
Pottstown, PA 19464

85/06  
Grodski, Dr. Gertrude V.  
402 E. May St.  
Mt. Pleasant, MI 48858

85/12  
G & E Nursery,  
Mr. Edward L. Pincus  
20011 Welch Rd.  
Shohomish, WA 98290

87/06  
Hager, Mr. Ben R.  
309 Best Road South  
Stockton, CA 95205

86/12  
Hale, Mrs. Agnes S.  
319 W. McClendon Circle  
La Grange, GA 30240

85/12  
Hale, Mr. Joseph C.  
3872 Genevieve Blvd.  
Stow, OH 44224

85/12  
Hall, Mr. Earl E.  
1495 Enterprise Road  
West Alexandria, OH 45381

85/12  
Hall, Ms. Gigi  
40417 Citrus Drive  
Fremont, CA 94538

86/06  
Hall, Mrs. Pruitt L.  
555 Willow Knoll Drive  
Marietta, GA 30067

86/06  
Hamilton, Mrs. Milton E.  
P.O. Box 509  
Beverly Farms, MA 01915

86/06  
Harder, Mr. Larry  
Maple Tree Gardens  
Ponca, NE 68770

86/06  
Harp, Mr. & Mrs. Maynard E.  
605 Kingston Rd.  
Baltimore, MD 21212

85/06  
Harris, Mrs. Eugene A.  
22 Magnusium  
Henderson, NV 89015

84/12  
Hartness, Mr. David  
4010 Salem Street  
Concord, CA 94521

88/06  
Heger, Mr. & Mrs. Michael L.  
8015 Krey Avenue  
Waconia, MN 55387

87/06  
Heller, Mrs. Harry A.  
19222 Burlington Drive  
Detroit, MI 48203

85/12  
Helsley, Mr. Calvin  
P.O. Box 306  
Mansfield, MO 65704

85/06  
Hemphill, Mr. Elva  
1415 E. Florida  
Springfield, MO 65803

86/06  
Herrington, Mrs. Finley  
P.O. Box 191  
Lorenzo, TX 79343

85/12  
Hewitt, Mrs. Jennifer  
Haygarth, Cleeton St. Mary  
Cleobury Mortimer,  
Ridderminster, Worcestershire DY140QU  
England

85/06  
Hobbs, Mr. & Mrs. Bernard E.  
3303 Westfield Road  
Noblesville, IN 46060

84/12  
Hockenbury, Ms. Doris J.  
6812 Norway Drive  
Louisville, KY 40214

88/06  
Hollingworth, Dr. Robert M.  
1015 Windwood Lane  
West Lafayette, IN 47906

88/06  
Ikings, Dr. & Mrs. W. Clyde  
P.O. Box 1539  
Bandera, TX 78003

86/06  
Holmes, Mr. James P.  
210 Greenway Rd.  
Ridgewood, NJ 07450

85/12  
Innerest, Mr. Sterling U.  
2700A Oakland Road  
Dover, PA 17315

88/12  
Holst, Mr. Eric  
Rt. 4, Box 592  
Vashon Is., WA 98070

85/06  
Iris Society of Minnesota,  
Librarian: Zula Hansen  
7124 Riverdale Road  
Minneapolis, MN 55430

87/06  
Hood, Mr. & Mrs. George  
7032 Darnoch Way  
Canoga Park, CA 91307

87/12  
Jahnke, Mr. Frederick C.  
W. 65 N. 727 St. John Ave.  
Cedarburg, WI 53012

87/06  
Hoover, Mr. Walter  
Box 337  
Saluda, NC 28773

87/06  
Jansen, Marjorie A.  
Route 2  
Norfolk, NE 68701

87/12  
Houseward, Mr. Bern J. Jr.  
122 Mawhinney Avenue.  
Hawthorne, NJ 07506

85/12  
Japan Iris Society  
Akira Horinaka,  
Tanimach 6 Chrome 3-9  
Minami-Ku Osaka 542,  
Japan

88/06  
Hughes, Mr. & Mrs. James M.  
3810 Stokes Ave.  
Charlotte, NC 28210

87/06  
Jeffcoat, Mr. J. L.  
P.O. Box 56, Abell Rd.  
Blythewood, SC 29016

85/12  
Hujzak, Mrs. Karol  
3227 S. Fulton  
Tulsa, OK 74135

86/12  
John, Mr. Ray M.  
1004 Springfield  
Fort Worth, TX 76112

87/12  
Hulbert, Ms. Elaine P.  
Rt. 3, Box 57  
Floyd, VA 24091

85/12  
Joyce, Mr. David E.  
14 May Street  
Worcester, MA 01610

88/06  
Hutmire, Mrs. Edward  
21 Columbia Ave.  
Takoma Park, MD 20912

88/06  
Kaiser, Mr. Alfred J.  
22 School Street, Box 47  
Hatfield, MA 01038

85/12  
Hutton, Mr. Clyde  
6688 Lockridge Drive  
Doraville, GA 30360

88/12  
Karadontes, Mr. Peter  
Briscoe Road  
Jeffersonville, NY 12748

86/06  
Johnson, Mr. Harry  
202 Cherry Street  
Allegan, MI 49010

85/12  
Johnson, Mrs. Mildred R.  
2275 Kensington Avenue  
Salt Lake City, UT 84108

86/06  
Jones, Mr. Earl W. Jr.  
2180 Froede Dr.  
Caro, MI 48723

89/12  
Kassly, Ms. Dolores M.  
25 Estates View Drive  
Fairview Heights, IL 62208

86/12  
Katz, Mrs. Charles  
601 Clinton Street  
Marshall, MI 49068

86/06  
Kelly, Mrs. Keith  
4240 Point Loma Avenue  
San Diego, CA 92107-3954

86/06  
Kingwood Center,  
900 Park Avenue West  
Mansfield, OH 44906

85/12  
Kirkwood, Mr. Roger  
RR 3, Box 3  
Mahomet, IL 61853

86/06  
Kloth, Mr. Reiner  
J-3 Woodland Plaza  
1153 S. Main  
Greenville, MS 38776

86/12  
Kotyk, Mr. Walter  
94 Bassett Street  
New Britain, CT 06051

87/12  
Koza, Dr. Donald W.  
1171 E. Idaho Ave.  
St. Paul, MN 55106

85/06  
Kroeger, Ms. Nell S.  
319 Radel Terrace  
South Orange, NJ 07079

86/06  
Kroll, Dr. Arthur  
109 Darrow Dr.  
Pennington, NJ 08534

84/12  
Krueger, Dolores  
Route 1  
Rosendale, WI 54974

86/12  
Kuesel, Mr. Harry B.  
1547 West Via Mirasol  
Green Valley, AZ 85614

85/12  
LaBach, Mrs. Mary A.  
3006 Ash Grove Pike  
Nicholasville, KY 40356

85/06  
Lamb, Mr. Harold  
4101 Wexham Dr.  
Lithonia, GA 30058

87/12  
Langford, Mrs. William E.  
1121 Highland Drive  
Henderson, TX 75652

84/12  
Larson, Ms. Kathy  
312 W. High Street  
Marshalltown, IA 50158

LIFE  
Laurin, Miss Verna  
199 Florence Avenue  
Willowdale, Ontario M2N 1G5  
Canada

86/06  
Lazarus, Mr. Brian  
1786 Generals Highway  
Annapolis, MD 21401

86/12  
Ledlie, Ms. Patricia  
P.O. Box 46  
Buckfield, ME 04220



86/06  
Leferar, Mr. G. W.  
4536 Kernersville Road  
Kernersville, NC 28284

85/12  
Lewis, Dr. William R.  
7 Bittersweet Lane  
St. Louis, MO 63138

85/06  
Maclean, Mrs. Patrica  
4524 N. Van Ness Blvd.  
Fresno, CA 93704

88/06  
Mahan, Mr. & Mrs. Clarence E.  
7311 Churchill Road  
McLean, VA 22101

85/12  
Malec, Mrs. Phyllis A.  
R.D. 2, Box 244  
Harvard, MA 01451

86/06  
Marble, Ms. Kathleen  
84 Littleton County Road  
Harvard, MA 01451

87/12  
Marks, Mr. Eugene A.  
4266 S. 4th Street  
Milwaukee, WI 53207

86/06  
Marks, Mrs. Henrietta  
1536 Ostrander Ave.  
LaGrange Park, IL 60525

86/06  
Marsh, Mr. Lawrence G.  
Route 2, Box 510  
Buchanan, MI 49107

85/06  
McCann, Mrs. Frank C.  
1027 Quinn Street  
Jackson, MS 39202

87/06  
McCarthy, Col. & Mrs. Max  
4708 Constitution Ave.  
Colorado Springs, CO 80915

85/12  
McCord, Mr. R. M.  
4914 N. Brookside Dr.  
Michigan City, IN 46360

85/12  
McEwen, Dr. & Mrs. Currier  
South Harpswell, ME 04079

88/06  
McGarvey, Dr. William G.  
P.O. Box 214  
Ozark, AR 72949

85/06  
McMillen, Mr. John  
RR1  
Norwich, Ontario N0J 1P0  
Canada

87/06  
McMurtrie, Mr. Alan N.  
22 Calderon Cres.  
Willowdale, Ontario M2R 2E5  
Canada

87/12  
McWhirter, Mr. James P.  
11294 Randolph Road  
Wilton, CA 95693

86/06  
Mead, Mr. Alan R.  
Box 177  
Fairfax, VT 05454

86/06  
Mellott, Mr. Roger  
6549 S. Clayton St.  
Littleton, CO 80121

86/06  
Mantz, Ms. Joanne  
28931 S.E. Davis  
Estacada, OR 97023

87/06  
Messer, Ms. Ruth I.  
750 Joliet Street  
W. Chicago, IL 60185

89/12  
Metcalf, Mr. Homer N.  
215 E Story  
Bozeman, MT 59715

86/12  
Miller, Mrs. Ronald F.  
6065 N. 16th St., Route 6  
Kalamazoo, MI 49007

85/06  
Moller, Mrs. Delores L.  
1551 Olive Street  
Walla Walla, WA 99362

85/12  
Molnar, Mr. Charles M.  
28 Haylin Drive  
Vernon, CT 06066

86/06  
Molzer, Ms. Virginia L.  
P.O. Box 81724  
Lincoln, NE 68501

88/06  
Morgan, Mr. & Mrs. Paul  
G 1384 Westwood Dr.  
Flint, MI 48504

87/06  
Mt. Diablo Iris Soc.,  
Mr. Carl H. Boswell  
1821 Gross Lane  
Concord, CA 94519

90/12  
Muller, Depl. Ing., Herr Bruno  
Palmgarten, Brossmayerstr. 61  
D-6000 Frankfurt/Main 1,  
West Germany

86/06  
Nahas, Mrs. K. M.  
P.O. Box 339  
Stephens City, VA 22655

85/12  
Nelman, Ms. Gail  
403 Ring Road  
Chadds Ford, PA 19317

85/12  
Ney, Mrs. Lavone R.  
2517 S. Brisbane Ave.  
Milwaukee, WI 53207

88/06  
Ninon, Mrs. Hunt  
P.O. Box 785  
Chatham, VA 24531

85/06  
Northern Illinois Iris Soc.,  
Librarian, Mrs. Florence Stout  
150 North Main Street  
Lombard, IL 60148

85/06  
Norton, Mr. Wayne R.  
684 So. New Middleton Rd.  
Media, PA 19063

85/06  
Nourse, Mrs. Patricia A.  
RFD 2, Box 183  
Great Barrington, MA 01230

86/06  
Orsen, Mrs. Norman  
RR 1, Box 111  
Minneota, MN 56264

86/06  
Ostheimer, Mrs. Ed  
P.O. Box 485  
Houma, LA 70361

88/06  
Padgett, Ms. Flo  
Route 2, Box 135-H  
Noblesville, IN 46060

85/12  
Palmer, Ms. Beatrice  
39 Hoyts Wharf Road  
Groton, MA 01450

85/06  
Parretta, Mrs. Bernice  
3934 Burke Ave. NE  
Route 4  
Louisville, OH 44641

86/06  
Paull, Ms. Cathie  
502 Murphy Street  
Murphysboro, IL 62966

88/06  
Peck, Mrs. Selma  
100 Bellingham Rd.  
Chestnut Hill, MA 02167

86/06  
Pederson, Mr. Warren  
Sibley, ND 58429

87/12  
Peltier, Mrs. Jack G.  
P.O. Box 166  
Golden Bridge, NY 10526

86/12  
Perkins, Mrs. Maxine  
P.O. Box 494  
Mesilla Park, NM 88047

86/06  
Perry, Ms. Alverne S.  
Route 1, Box 2180  
Partlow, VA 22534

87/12  
Rhodes, Mrs. William T.  
646 Yerrick Road  
Akron, OH 44312

87/06  
Rice, Mrs. Olive J.  
W. George Waters  
1914 Napa Avenue  
Berkeley, CA 94707

86/12  
Richardson, Mr. P. E.  
78 Thackeray Street  
Upper Hut,  
New Zealand

85/12  
Ritchie, Mrs. Jayne K.  
1713 Camas Ave, NE  
Renton, WA 98056

88/06  
Robaczek, Mrs. Zenobia  
Miss Antoinette Robaczek  
3680 S. Ahmed Avenue  
St. Francis, WI 53207

87/06  
Robinson, Rita Alice  
3816 North Linda  
Oklahoma City, OK 73112

87/12  
Rohn, Mr. Frederick W.  
Cranston Hill Road  
Stephentown, NY 12168

88/06  
Rommell, Capt. Herbert  
77 Bridge Street  
Newport, RI 02840

86/12  
Ross, Mr. Charles  
3181 Richmond N.W.  
Walker, MI 49504

85/12  
Roundtree, Mr. John J.  
6514 Elmhurst  
Falls Church, VA 22043

86/06  
Rowlan, Mr. & Mrs. Henry C.  
12 Roxbury Drive  
Little Rock, AR 72209

86/06  
Rowland, Mr. & Mrs. C. B.  
113 Laurel Ave.  
Goose Creek, SC 29445

87/12  
Royal Botanical Gardens,  
The Library,  
P.O. Box 399  
Hamilton, Ontario L8N 3H8  
Canada

87/12  
Rudolph, Mr. & Mrs. Nathan H.  
405 Lakelawn Blvd.  
Aurora, IL 60506

85/12  
Sachs, Mr. Bill  
Rachel R. Marsh  
P. O. Box 3700  
Saint Albans, ME 04971

87/12  
Sahin, K.  
P.O. Box 227  
2400 AE Alphen  
Aan Den Rijn,  
Holland

86/06  
Salzman, Ms. Virginia T.  
74 South Road  
Pepperell, MA 01463

87/12  
Santa Rosa Iris Society,  
2181 Blucher Valley Rd.

85/06  
Peterson, Mr. Donald R.  
1870 25th Avenue  
Columbus, NE 68601

87/06  
Pettijohn, Mr. Richard T.  
2510 S. 148th Avenue  
Omaha, NE 68144

85/06  
Phelps, Mr. & Mrs. Paul E.  
Star Route, Box 52  
Dulzura, CA 92017

85/06  
Ponchalek, Ms. Jan D.  
1009 W. School Street  
Chicago, IL 60657

86/06  
Popper, Mrs. Richard  
63 Washington Street  
Natick, MA 01760

86/06  
Potts, Mrs. T. E.  
944 S. Rollwood Rd.  
Antigo, WI 54409

85/12  
Preece, Dr. Sherman J. Jr.  
200 Pine Needle Lane  
Big Fork, MT 59911

87/12  
Presby Memorial Iris Gardens  
474 Upper Mountain Ave.  
Upper Montclair, NJ 07043

85/12  
Price, Mr. Elmer J.  
3507 North Stevens St.  
Tacoma, WA 98407

86/12  
Pries, Mr. & Mrs. Robert  
6023 Antire Road  
High Ridge, MO 63049

87/06  
Probst, Mr. Darroll  
R.D. 1, Box 220  
Avondale, PA 19311

88/06  
Ramsey, Mr. & Mrs. Richard  
6518 Beachy Avenue  
Wichita, KS 67206

85/06  
Randall, Mr. & Mrs John  
RR 1, Box 39A  
Crescent City, IA 51526

86/06  
Randall, Patricia  
Route 1, Box 125  
Bayard, NE 69334

87/12  
Reath, Dr. D. L.  
100 Central Blvd.  
Vulcan, MI 49892

85/06  
Redgate, Mrs. G. G.  
RD3  
Chaugo,  
New Zealand

87/12  
Reece, Mr. Sam  
1843 East Brown Avenue  
Fresno, CA 93703

86/06  
Reid, Mrs. Lorena M.  
41886 McKensie Hwy.  
Springfield, OR 97478

87/12  
San Fernando Iris Society,  
Bobee Rinehart, Librarian  
22218 Schoenborn Street  
Canoga Park, CA 91304

87/12  
Sauers, Mr. Don L.  
2610 Elliott Avenue  
Columbus, OH 43204

88/06  
Savage, Mr. Robert H.  
33 Ona Lane  
Newburgh, NY 12550

87/12  
Saxton, Mr. Donald  
1011 Cole Drive, SE  
Huntsville, AL 35802

87/06  
Schafar, Martin C.  
Janet L. Sacks  
45 Elm Street  
Bedford, MA 01730

85/12  
Schiessl, Dr. H. W.  
79 Parsonage Hill Rd.  
Northford, CT 06472

88/12  
Schlegel, Dr. Fred M.  
Director Arboretum  
Univ. Austral De Chile  
Casilla 135  
Valdivia,  
Chile

86/06  
Schluter, Mr. & Mrs. Charles  
Rt. 2, Box 62  
Baraboo, WI 53913

85/12  
Schmieder, Mr. & Mrs. David  
566 Old Road to N.A.C.  
Concord, MA 01742

87/12  
Schmuhl, Mrs. Marian H.  
7 Revolutionary Ridge Road  
Bedford, MA 01730

86/06  
Schnelly, Ms. Janet V.  
R#1  
Foreston, MN 56330

86/06  
Schwab, Mr. William A.  
702 E. Ash  
Lees Summit, MO 64063

88/06  
Seeden, Mr. Jim D.  
Mrs. Lois Seeden  
13450 Willandale Road  
Rogers, MN 55374

85/12  
Sagessemann, Mrs. Harriett  
380 Crescent Drive  
Franklin Lakes, NJ 07417

85/12  
Beidl, Mr. William J.  
732 S. 19th Street  
Manitowoc, WI 54220

85/06  
Shaffer, Mrs. June  
Burry Road  
Bradfordwoods, PA 15015

86/06  
Shannon, Mr. David E.  
186 North Syndicate  
St. Paul, MN 55104

86/12  
Shear, Mr. Bruce E.  
Route 1, Box 395  
16 South Acres  
Voorheesville, NY 12186

87/06  
Shimizu, Hiroshi  
Aihara 842, Sagamigahara-Shi  
Kananawa-ken, 229  
Japan

86/06  
Shoemaker, B. L.  
Box 796  
Gravette, AR 72736

87/12  
Shoup, Mr. Marvin A.  
RR 2, Box 56  
Kankakee, IL 60901

86/06  
Shute, Mrs. Carol  
P.O. Box 68  
Gilmanton, NH 03237

87/12  
Silverberg, Mr. Dave  
27 Spring Hill Drive  
Howell, NJ 07731

86/06  
Singler, Ms. Mary Ann  
12263 Gervais Road  
Mt. Angel, OR 97362

86/12  
Smith, Mrs. Cheri G.  
70 Trevanion Road  
Taneytown, MD 21787

87/12  
Smith, Mr. Paul R.  
299 N. Pleasant View Road  
Saratoga, PA 19464

86/06  
Smith, Mr. Robertson V.  
3100 NW 32nd Street  
Oklahoma City, OK 73112

84/12  
Smith, Mr. Robert R.  
2119 Parker Avenue  
Berkeley, CA 94704

85/06  
Smith, Mrs. Theodore R.  
505 Deerfield Pl.  
Santa Rosa, CA 95405

85/06  
Smyth, Mrs. James S.  
19 Wanda Way  
Martinez, CA 94553

87/12  
Snyderman, Dr. & Mrs. S. C.  
12728 US 24 West  
Fort Wayne, IN 46804

LIFE  
Soules, Mr. & Mrs. Clarence C.  
5809 Rahke Road  
Indianapolis, IN 46217

87/06  
Spechar, Mr. Carl C.  
2458 Willoughby Ave.  
Seaford, LI, NY 11783

86/06  
Spiller, Mrs. Caroline C.  
Box 572  
Kentfield, CA 94914

85/12  
Sprowl, Mr. Bill  
Box 102  
Northport, WA 99157

85/12  
Stadler, Mr. James D.  
1613 Country Club Road  
Reidsville, NC 27320

88/06  
Stark, Mr. Gunther  
Rte. 1, Box 7  
Norwalk, IA 50211

87/12  
Starkey, Mrs. Marjorie  
4255 Tobias Road  
Akron, MI 48701

85/06  
Steele, Mrs. Richard  
2121 Sedley Road  
Charlotte, NC 28211

85/12  
Steinkamp, Mr. Paul  
RD 2, Box 449  
Altamont, NY 12009

85/12  
Stewart, Dr. Sidney  
60 Rue Quincampoix  
75004, Paris,  
France

86/06  
Stirling, Mr. Jim  
RR #1  
Morpeth, Ontario N0P 1X10  
Canada

85/06  
Stout, Mrs. Florence E.  
150 North Main Street  
Lombard, IL 60148

86/06  
Straw, Mrs. Ophelia F.  
Rt. 3, Box 90  
Clark's Valley Road  
Dauphen, PA 17018

85/06  
Strawn, Mr. & Mrs. Kirk  
1005 Ashburn  
College Station, TX 77840

85/12  
Stuhl, Mr. Louis S.  
7 Orchard Rd.  
Bedford, MA 01730

86/06  
Sutton, Mr. Raymond Jr.  
P.O. 330  
Williamsburg, KY 40769

85/12  
Sydney B. Mitchell Iris Society,  
Librarian: Merry Haveman  
P.O. Box 2054  
Burlingame, CA 94010

LIFE

Tamberg, Dr. Tomas  
Zimmerstrasse 3  
1 Berlin 45,  
West Germany

86/12

Tankesly-Clarke, Mssrs. Robert & Eric  
Route 1, Box 246  
California, MO 65018

86/06

Tarr, Mrs. Helen W.  
820 Rudy Road  
Lisle, IL 60532

86/06

Thoman, Mr. Ronald J.  
2814 Kennedy Road  
Talleybrook  
Wilmington, DE 19810

86/06

Thomas, Ms. Marguerite B.  
5606 Taft Avenue #202  
Oakland, CA 94618

86/06

Tiffney, Mrs. Wesley N.  
226 Edge Hill Road  
Sharon, MA 02067

LIFE

Tremmel, Mr. Eugene  
5613 Wallings Road  
North Royalton, OH 44133

84/12

Trevithick, Mrs. Joan  
86A Grantham Rd.  
Radcliffe-on-Trent  
Nottingham N6 12 2HY,  
England

86/12

Trommer, Mr. Charles R.  
45 River Street  
Rehoboth, MA 02769

88/06

Valente, Ms. Cindy  
Valente Gardens  
Route 2, Box 234  
East Lebanon, ME 04027

86/06

Valentine, Dr. & Mrs. Edward  
1750 Woodard Road  
Elma, NY 14059

86/06

Vandoren, Mr. A. Reading  
17 Ingleside Road  
Stamford, CT 06903

86/12

VanMulders, Jardinart  
6A Rue Due Plangelois  
B-5055 Tavier  
Namur 2,  
Belgium

86/06

Varner, Mr. D. Steve  
North State St. Rd., Rte 1  
Monticello, IL 61856

87/12

Varnum, Mr. & Mrs. E. E.  
4703 Constitution  
Colorado Springs, CO 80915

87/12

Vaughn, Mr. Kevin C.  
USDA S. Weed Sc. Lab.  
Box 225  
Stoneville, MS 38776

85/12

Veaamse Irisvereniging  
Vorzilter R. Springael,  
83J Hendrickxstraat  
2120 Schoten,  
Belgium

86/06

Viator, Mrs. Carl  
P.O. Box 742  
Hillsboro, NH 03244

85/06

Vogt, Mr. Adolph J.  
5101 Fegenbush Lane  
Louisville, KY 40218

85/12

Von Stein-Zeppelin, Mrs. Helen  
Laufen-Baden  
7811 Sulzberg-2,  
West Germany

86/06

Wadekamper, Mr. Julius  
Route 5  
Faribault, MN 55021

87/06

Walte, Mr. & Mrs. Kenneth  
6 Tow Path Lane  
Westfield, MA 01085

86/06

Walker , Ms. Ruth  
113 Sutter Road  
Partlow, VA 22534

87/12

Warburton, Mrs. Frank (Bee)  
2 Warburton Lane  
Westborough, MA 01581

86/06

Ward , Mr. Bob  
54 Belmont Dr.  
Little Rock, AR 72204

85/12

Warner, Mrs. Andrew C.  
16815 Falls Road  
Upperco, MD 21155

86/12

Watson, Mr. Ben  
2204 Branch Pike  
Riverton, NJ 08077

88/06

Watts, Mr. & Mrs. George P.  
133 King Street  
Armonk, NY 10504

88/06

Weaver , Mr. Doug  
RR5, Owen Sound  
Ontario, N4K 5N7  
Canada

86/06

Welborn, Mrs. C. H.  
4109 Camellia Avenue  
North Hollywood, CA 91604

LIFE

Welsh, Mr. Leland M.  
7979 West D Avenue  
Kalamazoo, MI 49009

85/12

Westfall , Larry & Joy  
673 West Boot Road  
Downingtown, PA 19335

86/06

Westmeyer, Mrs. Troy R.  
60 Gary Road  
Stamford, CT 06903

87/12

Whitehouse, Mrs. Barbara B.  
Plainville House, C-3  
Town and Country Way  
Plainville, MA 02762

86/06

Whyte, Dr. Adrienne  
6704 West Falls Way  
Falls Church, VA 22046

LIFE

Wilder, Mrs. Ruth  
2219 Mathews SE  
Huntsville, AL 35801

86/06

Wilhoit, Mr. & Mrs. Jerry  
Rt. 1, Box 141  
Kansas, IL 61933

87/12

Wilkins, Mrs. Robert F. Sr.  
7536 Waupun Road  
Oshkosh, WI 54901

LIFE

Willott, Mr. & Mrs. Anthony  
26231 Shaker Blvd.  
Beachwood, OH 44122

87/12

Wilson, Ruby F.  
7808 9th Street  
Elverta, CA 95626

86/06

Winkler, Dr. Virginia L.  
670 Pine Street  
Deerfield, IL 60015

86/06

Winton , Mrs. Doris J.  
Route 5, Box 232K  
Franklin, IN 46131

87/12

Wisconsin Iris Society,  
Mrs. Ruth Roger: Librarian  
W269/N686, Meadowbrook Road  
Waukesha, WI 53186

85/06

Wise, Miss Elsie E.  
RD 3, Box 172  
Califon, NJ 07830



85/12  
Wiseman, Ms. Annabelle  
500 W. Hiway N.  
Wentzville, MO 63385

87/06  
Withers, Mrs. John W.  
218 Jay Ave.  
Twin Palms Park  
Lakeland, FL 33801

86/12  
Wood, Mr. Deane R.  
962 E. 104th St.  
Tacoma, WA 98445

87/12  
Wood, Mr. John W.  
Rt. 1, Box 290  
Mooreboro, NC 28114

85/12  
Wood, Dr. M. M.  
132 Arkwrights  
Harlow Essex, CM20 3LZ  
England

87/12  
Wright, Kathryn S.  
Route 22, Box 329  
Terre Haute, IN 47802

85/06  
Wyss, Mrs. Mary  
1413 South Liberty  
Independence, MO 64055

84/12  
Yearwood, Mr. C. E.  
136 Meier Circle, SE  
Milledgeville, GA 31061

84/12  
Zug, Mrs. Opal  
803 Clarkway Drive  
Las Vegas, NV 89106

87/06  
Zurek, Ltc. & Mrs. Charles M.  
6117 Rio Hondo Drive, NE  
Albuquerque, NM 87109

## Editor's Corner



I am finally managing to get this issue of TSI out and in the mail to you. It has been quite a struggle. It is only after much thought and considerable regret that I must resign as editor of TSI, after the Fall issue. TSI requires much more time than the typing of a page of copy, as some of you may know, and with the purchase of a 40 acre farmette in need of repair, road construction requiring relocation of over 600 iris this year and the balance next year, increasing responsibilities at work (50 miles away), as well as the normal interruptions, there just isn't time left over for TSI.

I have enjoyed the many letters I have received concerning TSI, offering support, comments and information.

I urge those of you who may have something of interest for TSI, to send it to the editor! It will make much less work for the future editor if she doesn't have to write to you begging you for something to put in TSI.

I will still be looking for good slides of the following Morgan award winners: Tycoon, Eric the Red, Tropic Night, Blue Brilliant, Pirouette, Velvet Night, Dewful, Halycon Seas, Vi Luihn, Butter & Sugar, Steve Varner, Ann Dasch. Anyone who has a good slide please contact me so we can finish up the color section. Thank you.

Carolee



'DREAMING YELLOW'- Parent of 'Butter and Sugar'