

Lilacs

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PROCEEDINGS

of the International Lilac Society



Fourteenth Annual Convention
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May 17, 1985

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INTERNATIONAL LILAC SOCIETY is a non-profit corporation comprised of individuals who share a particular interest, appreciation and fondness for lilacs. Through exchange of knowledge, experience and facts gained by members it is helping to promote, educate and broaden public understanding and awareness.

Published November 1985

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Editor's Note

The Fourteenth Annual Meeting which these proceedings record was notable for bringing the message of lilacs to the center of communication, New York City. A goodly representation of members gathered during the blooming season. We visited notable lilac collections. We offered quality lilacs to the general public through auction and sales. And we honored through awards many who have been spreading the good word on lilacs until we have an International Society dedicated to lilacs and their culture and appreciation.

This issue of LILACS is respectfully dedicated to the memory of our late President, Thomas N. Chieppo. The Eulogy herein printed was delivered at his funeral by his youngest son Jonathan and repeated at the Awards Banquet.

INTERNATIONAL LILAC SOCIETY

14TH ANNUAL CONVENTION

May 16 to 19, 1985

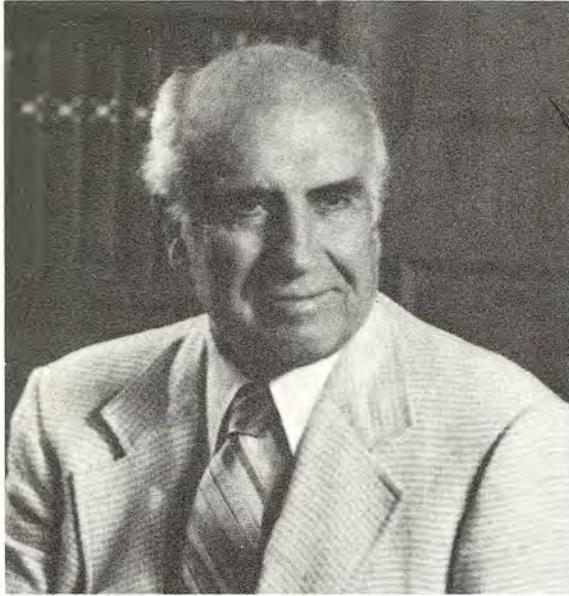
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Thanks are given to the Brooklyn Botanic Garden and it's officers and staff for hosting this Annual Meeting.

Photo Credits: All photos were taken by John Calabrese except those on pages 5, 10, 22 and 26 which were taken by Estelle Gerard; and the magnolias on page 5 taken by Slim Zumwalt.

*This Fourteenth Issue
is respectfully dedicated to the memory of*



Thomas N. Chieppo

His ideas and dreams were as fresh as spring grass. His mind never stopped thinking of new paths to take or roads to walk. The people he knew and the friends he has were endless, much like his dreams.

His loving temperament was that of a graceful deer, not just any deer, but the strongest and wisest. For no hill was ever too steep for this proud buck nor river too wide. He could conquer all.

He lived his life to the fullest. He did everything imaginable, from running track at Amherst College, to band, (playing tenor sax). Tom devoted so much time to helping others. The funds he raised for so many charities are uncountable.

We will miss the stories he told, the many jokes. But most of all we will miss his natural *warmth, sensitivity and kindness.*

When we are in Vermont, we all will smell the fragrant lilacs and think of the "*Chief*" who worked so hard to keep his family together, so very happy. We will remember the beauty he created and the many hearts he has touched.

His laughter will still be heard, lighting our hearts. Rejoice for the beautiful things he has done and accomplished.

Jonathan Chieppo

Louisa Clark Spencer Collection of the Brooklyn Botanic Garden

by Thomas Delendick and Daniel Ryniec

The date of the first lilac plantings at the Garden is unknown. When Dr. C. Stuart Gager, the first Director, commented in the Annual Report for 1917 that World War I was "*disrupting the Garden's acquisition of choice varieties*," the collection already included 130 varieties of *Syringa vulgaris*. The war-time interruption was, happily, only temporary.

From the beginning lilacs were planted in two separate locations. In the Systematic Collection (the southern portion of the Garden), species of lilacs are represented in the area devoted to their botanical family, the Olive Family or *Oleaceae*. This area, however, accommodates but a token representation of *Syringa*. A more comprehensive display of the genus is found in the Horticultural Section, now called the **Louisa Clark Spencer Lilac Collection**, toward the north end of the Garden.

Since the early 1930s the lilac collection has received attention several times by being remapped and reevaluated. In 1936 the first comprehensive study for correct identity and nomenclature was undertaken by Taxonomist Dr. Alfred Gundersen during the three-week blooming period.

Developments are somewhat vague from the early 1960s. It is apparent from maps (variously dated from the 1930s to the early 1950s) that the collection extended solidly, like a thicket, from the Cranford Rose Garden to the surrounding roads.

Sometime in the 1950s the cultivars were regrouped into a single major bed with the species extending individually south and a number of new varieties was added. This mainly aggravated the already overcrowded area. Also, some cultivars were incorrectly labeled.

By the mid-1980s problems of planting too closely and the emergence of understock from the grafted specimens almost overwhelmed the collection. It was then that the Taxonomy and Horticultural Departments worked closely together to verify the identity of the many cultivars, thus beginning the major overhaul of the collection.

The first over-large bed adjacent to the Crawford Rose Garden was divided by paths to make the numerous cultivars accessible to visitors and to give the collection a less formidable, more inviting aspect. Many full-sized specimens were relocated; others were propagated to replace some of the original plantings, now deteriorated, or as "insurance" for transplanted specimens. The old planting scheme, in which the cultivars were arranged by color groups, was not aesthetically effective and was discontinued.

By good fortune the 1936 lilac maps were re-discovered in 1980 with the result that all the lilacs in the west slope of the Overlook could be verified. These specimens had been unlabeled for upwards of 40 years and had, until this time, been regarded as pretty but almost impossible to name.

Hereafter the Brooklyn Garden will have a public display of lilacs which are correctly labeled, such accuracy being basic to instruction and the fuller enjoyment of the public. The collection is intended to be representative of both species lilacs and the range of horticultural variation. Individual specimens will be given space for healthy and attractive growth.

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**Views of plant collections in the Brooklyn Botanic Garden:
Japanese cherry mall**



Eastern Asiatic magnolias in full bloom a few weeks before the lilacs bloom

Louisa Clark Spencer Collection

<i>Syringa</i> x <i>chinensis</i>	<i>S. pekinensis</i> 'Pendula'
<i>S. x chinensis</i> 'Alba'	<i>S. x persica</i>
'Orchid Beauty'	<i>S. pinnatifolia</i>
'Saugeana'	<i>S. x prestoniae</i> 'Donald Wyman'
<i>S. x diversifolia</i> 'Nouveau'	'Hiawatha'
* 'William H. Judd'	'Isabella'
<i>S. emodi</i>	'Miss Canada'
<i>S. x 'Hedin'</i>	<i>S. reflexa</i>
<i>S. x henryi</i> 'Lutece'	<i>S. reticulata</i> var. <i>amurensis</i>
<i>S. x hyacinthiflora</i> 'Alice Eastwood'	<i>S. reticulata</i> var. <i>reticulata</i>
'Anabel'	<i>S. x swegiflexa</i>
'Assessippi'	<i>S. sweginzowii</i>
'Claude Bernard'	<i>S. tigerstedtii</i>
'Esther Staley'	<i>S. tomentella</i>
'Evangeline'	<i>S. villosa</i>
'Lamartine'	<i>S. vulgaris</i>
'Louvois'	<i>S. vulgaris</i> 'Adelaide Dunbar'
'Montesquieu'	'Alphonse Lavallee'
'Purple Gem'	'Andenken an Ludwig Spath'
'Summer Skies'	'Andre Csizik'
'Vauban'	'Belle de Nancy'
<i>S. x josifexa</i> 'Anna amhoff'	'Bicentennial'
'James Macfarlane'	'Bleuatre'
'Nellie Bean'	'Bright Centennial'
'Royalty'	'Buffon'
<i>S. josikaea</i>	'Capitaine Baltet'
<i>S. juliana</i>	'Carley'
<i>S. juliana</i> 'George Eastman'	'Carmen'
'Hers Variety'	'Charles Joly'
<i>S. komarovii</i>	'Charles X'
<i>S. laciniata</i>	'Chris'
<i>S. meyeri</i>	'Comte Adrien de Montebello'
<i>S. meyeri</i> 'Palibin'	'Comte Horace de Choiseul'
<i>S. microphylla</i> 'Superba'	'Condorcet'
<i>S. x nanceiana</i> 'Floreale'	'Congo'
<i>S. oblata</i> var. <i>oblata</i>	'Dappled Dawn'
<i>S. oblata</i> var. <i>dilatata</i>	'Dawn'
<i>S. oblata</i> var. <i>dilatata</i> 'Miss Kim'	'De Miribel'
<i>S. patula</i> (velutina)	'Desfontaines'
<i>S. patula</i> 'Excellans'	'Dr. W. Bugala' ('Dr. Chadwick')
<i>S. patula</i> var. <i>kamibayashi</i>	'Duc de Massa'
<i>S. pekinensis</i>	'Dwight D. Eisenhower'
	'Edith Cavell'
	'Emile Gentil'

'Firmament'	
'Frau Wilhelm Pfitzer'	
'Gaudichaud'	
'General Sheridan'	
'Georges Bellair'	
'Gismonda'	
'Gloire de Moulins'	
'Glory'	
'Henri Martin'	
'Hippolyte Maringer'	
'Jean Mace'	
'Katherine Havemeyer'	
'Krasavitsa Moskvj'	
'Laplace'	
'Leon Gambetta'	
'Lucie Baltet'	
'Macrostachya'	
'Mme. Antoine Buchner'	
'Mme. Casimir Perier'	
Mme. Catherine Bruchet'	
'Mme. F. Morel'	
'Mme. Florent Stepman'	
'Mme. Lemoine'	
'Magellan'	
'Maiden's Blush'	
'Marceau'	
'Marechal Foch'	
'Marie Legraye'	
'Maurice de Vilmorin'	
'Maximowicz'	
'Melissa Oakes'	
'Miss Ellen Willmott'	
'Montaigne'	
'Monument'	
'Mrs. Edward Harding'	
'Mrs. W.E. Marshall'	S. wolfii
Mrs. Watson Webb'	S. yannanensis
'Nadezhda'	
'Nancy Frick'	
'Naudin'	
'Negro'	
'Night'	
'Olivier de Serres'	
'Paul Thirion'	
'Perle von Stuttgart'	
'Pink Mist'	
'President Carnot'	
'President Grevy'	
'President Lincoln'	
'President Poincare'	
'President Roosevelt'	
'Primrose'	
'Priscilla'	
'Reaumur'	
'Rochester'	
'Romance'	
'Rosea Grandiflora'	
'Sarah Sands'	
'Saturnale'	
'Sensation'	
'Serene'	
'Silver King'	
'Thunberg'	
'Vestale'	
'Victor Lemoine'	
'Villars'	
'Viviand-Morel'	
'Volcan'	
'Waldeck-Rousseau'	
'William Robinson'	
'Zulu'	

(* indicates plants in nursery)

The Late Theodore A. Havemeyer

by Elizabeth Scholtz, Brooklyn Botanic Garden

It might be considered impossible to write an appraisal of the life and work of a man one has never met, and indeed, someone who died almost half a century ago. What makes this task possible and even pleasurable is that his contributions to the world of horticulture are well documented, and that he is still remembered with affection and admiration. The man in question is Theodore Augustus Havemeyer, born to wealth in 1868, and actively involved in horticulture from an early age.

Mr. Havemeyer's 40-acre estate, Cedar Hill in Brookville, Long Island featured irises, peonies, gladioli and lilies as well as lilacs. It is his work with lilacs that is best known. His interest in these plants led him to Victor Lemoine in Nancy, France sometime after 1910, and this visit became an annual summer pilgrimage, from which he would bring back plants for his collection. As a result of this association M. Emile Lemoine, Victor's son, wished to name a fine lilac '*T.A. Havemeyer*', but Mr. Havemeyer asked that it be named '*Katherine Havemeyer*' for his wife. A recurring theme in all that is written about this great amateur horticulturist is his excessive modesty. By the 1920s Havemeyer's lilac crosses were becoming widely known and admired. A frequent visitor to his estate was Dr. John C. Wister, that remarkable Pennsylvania horticulturist, who enjoyed seeing Havemeyer's new varieties, very few of which were ever named in his lifetime. Not only was he modest but also cautious, maintaining that no variety should be considered worthy of naming until it had been grown and judged for ten years.

Mr. Havemeyer's interests led him to the Horticultural Society of New York, where he exhibited in many flower shows. He became president of the Society in 1914, and chairman of the International Flower Show in 1917, when it was but a small more-or-less local event. During his chairmanship it became a national exhibition and attracted visitors from far and wide. The Horticultural Society gave him its gold medal in 1932 "in appreciation of his high idealism and unflagging zeal, which have done much for the advancement of horticulture."

He suffered a paralytic stroke in the early '30s which left him unable to speak. After two years of helplessness he was once again able to walk among his beloved lilacs with his superintendent, Alexander Michie. He would point to plants he considered meritorious and Michie would suggest names for them which he would accept or reject with nods or other signals. His interest in lilacs and in his horticultural visitors lasted until his death on July 30, 1936.

His lilac collection was presented to the New York Botanical Garden by his widow in 1951. Many of the Havemeyer lilacs are

growing in Brooklyn Botanic Garden's Louisa Clark Spencer Lilac Collection, where each spring they light up the area with their wondrous flowers of many colors and glorious fragrance. It is then that we give grateful thanks to Mr. Havemeyer for his "high idealism and unflagging zeal."



Elizabeth Scholtz, our hostess

Havemeyer Lilac Cultivars

- | | |
|--------------------|-------------------------------|
| S II Allison Gray | S VII Jane Day |
| S VII Anne Shiach | S VI Lady Lindsay |
| S III Blue Angel | D V Martha Kounze |
| S I Carley | Mauve Mist |
| S V Charm | D VI Mister Big |
| S III Dawn | S III Moonlight |
| D I Dazzle | S III Mrs. A. Belmont |
| D VI Downfield | S III Mrs. Elizabeth Peterson |
| S VII Dusk | S VII Mrs. Flanders |
| S IV Ellie Marie | S IV Mrs. John S. Williams |
| Ethan Allen | D VI Mrs. John W. Davis |
| S VII Ethel Dupont | S VII Mrs. Trapman |
| S II Fred Payne | S VI Mrs. Watson Webb |
| S VI Glory | S VII Mrs. W.E. Marshall |
| S VII Hallelujah | S V Nancy Frick |
| S I Heather | S V Night |
| D I High Noon | S V Pink Mist |
| S II James Stuart | S VI Priscilla |

D I Professor E.H. Wilson
S V Romance
S VII Sarah Sands
S V Serene
Smokey-grey

S I Sonia Colfax
S VI Tit Tat Toe
S III True Blue
S I White Swan
S VII Zulu

Biographical Sketches

1. Anon., Theodore Augustus Havemeyer. Bulletin of Horticultural Society of New York. pp. 4-6. portrait. October 1936.
2. Wister, John C., The late T.A. Havemeyer, lilac fancier. New York Botanical Garden Journal. pp. 153-155. photograph of bronze plaque. September-October 1952.



**Specimen lilac in the Louisa Clark Spencer lilac collection
with admirers**

Mycoplasmalike Organisms Identified in Lilacs with Witches'-broom Disease

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Abstract

Witches'-broom symptoms developed in *Syringa x josiflexa*, *S. x prestoniae*, *S. sweginzowii*, and *S. villosa x sweginzowii* located in the lilac collection at The Morton Arboretum, Lisle, Illinois. Symptoms included the proliferation of axillary shoots, shortened internodes, and stunted leaves. Mycoplasmalike organisms (MLOs) were detected in the phloem of leaves by Dienes' stain and electron microscopy. A healthy lilac was infected with MLOs by graft transmission. We conclude that MLOs are the likely cause of the witches'-broom disease of lilacs.

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Dr. Craig R. Hibben, director of BBG Research Center

Many lilacs in the collection (1200 lilac specimens) at The Morton Arboretum, Lisle, Illinois, have been deteriorating for over 10 years. During an examination of the lilac collection in September, 1983, we observed on several cultivars and species the proliferation of axillary shoots (witches'-brooms) and vegetative and flower buds prematurely forced.

Lilac witches'-brooms have been reported (1). Graft transmission of the infectious agent was achieved, and it was tentatively identified as a virus (2,6). Mycoplasma-like organisms (MLOs), rather than viruses, have been identified as the pathogens responsible for several witches'-broom diseases of woody plants (7).

Some of the symptoms in lilacs at The Morton Arboretum resembled those described for tree diseases caused by MLOs (7). This report summarizes our evidence that an MLO is the likely causal agent.

MATERIALS AND METHODS

Twenty lilacs in the collection and nursery at The Morton Arboretum were selected because of either witches'-broom symptoms or premature forcing of buds. They were as follows: *Syringa emodi* G. Don. 'Aurea', *S. x josiflexa* Preston 'Royalty', *S. x josikaea* Jacq., *S. x persica* L., *S. x prestoniae* McKelvey 'Elinor', *S. x prestoniae* 'Juliet', *S. x prestoniae* 'Paulina', *S. x prestoniae* 'Regan', *S. sweginzowii* Koehne & Lingelsh., *S. villosa* Vahl., *S. villosa x sweginzowii* 'Hedin', *S. vulgaris* L. 'Mme Florent Stepman', *S. vulgaris* 'Kim' and *S. vulgaris* 'Reit Bruidegom'. The symptoms were observed in September 1983 and 1984. Three apparently healthy lilacs were selected as controls: *S. vulgaris* 'Emil Liebig', *S. vulgaris* 'Nadezda', and another *S. sweginzowii*.

Dienes' stain. Shoot samples were harvested, and longitudinal sections were cut from them on a freezing microtome. The sections were held in Dienes' stain (3) and the phloem tissue was examined with a light microscope for the presence of MLOs.

Electron microscopy. Cuttings were harvested from symptomatic and non-symptomatic lilacs. Secondary veins, midribs and petioles were excised, fixed, and prepared for the electron microscope (RCA EMU-4 transmission electron microscope) (TEM) by methods already described (5).

Graft transmission. Budsticks were collected from Royalty, one of the cultivars with extensive witches'-broom symptoms. Infection was confirmed by Dienes' stain and TEM. A healthy 4-year-old Royalty was grafted with buds and bark patches cut from the budsticks.

Virus transmission. A sample of shoots and leaves from an infected Juliet was indexed for virus by mechanical inoculation of virus indicator plants, as described (4). A sample from the grafted Royalty lilac was similarly indexed for virus 8 months after grafting.

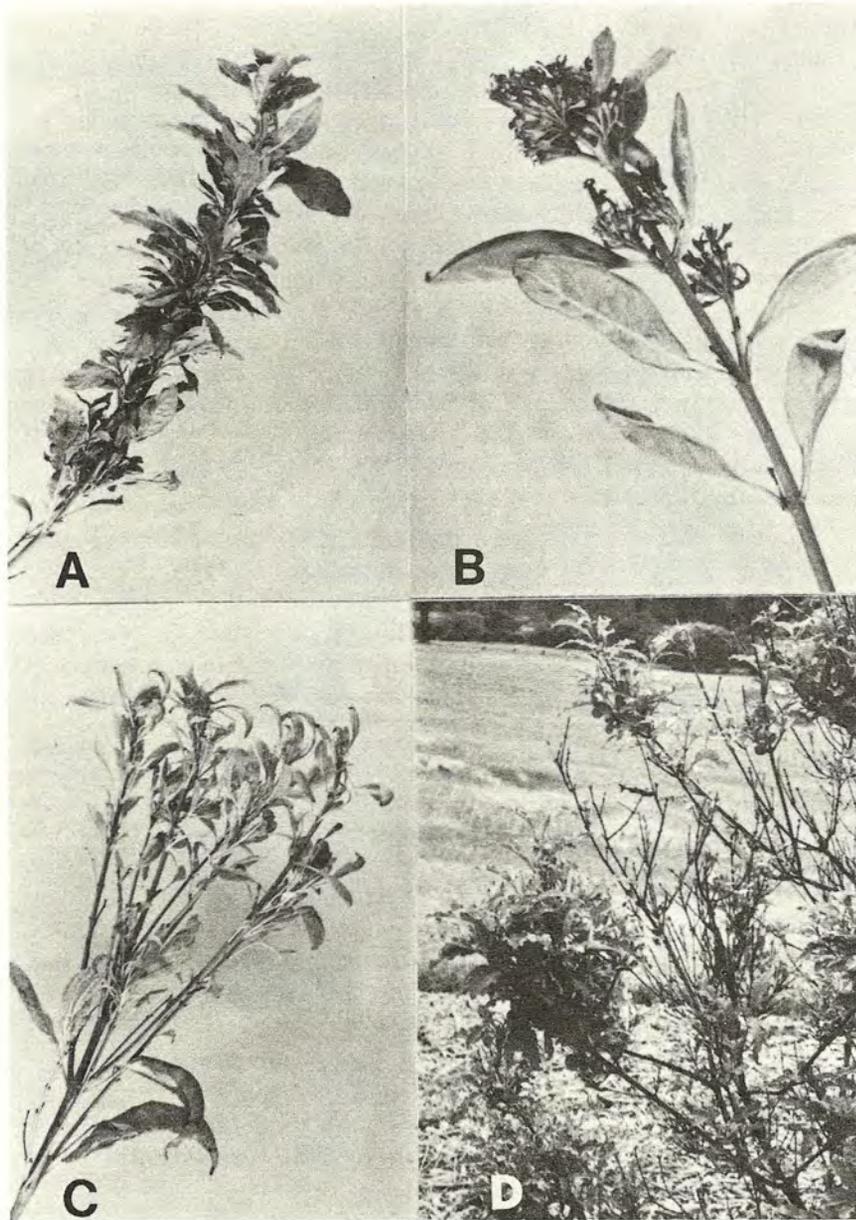


Fig. 1. Symptoms of witches'-broom disease in Lilac:
(A) shoot of Royalty, (B) flowers of Juliet forced in September,
(C) branch of Juliet showing acute upward angle of shoots, (D)
live and dead brooms on Royalty.

RESULTS

Symptomatology. As summarized in Table 1, 11 lilacs, including cultivars of *S. x josiflexa*, *S. x prestoniae*, and *S. villosa x sweginzowii*, plus *S. sweginzowii*, displayed witches'-broom symptoms in September 1983. Shoots develop from buds that normally remain dormant until the following spring. New buds on forced shoots can also elongate into a second set of axillary shoots. Internode length decreases, and the upward angle of axillary shoots is often acute. Buds on older stems often are stimulated into growth. Witches'-brooms sometimes exhibit scorch and dieback during the growing season.

The leaves of witches'-brooms are often stunted and are a normal green, light green, or slightly chlorotic. The forcing of flower buds produces compact and stunted panicles, which sometimes become scorched. Witches'-brooms were not uniformly distributed on shrubs; all specimens with brooms had some branches with foliage that appeared healthy. Nine lilacs (Table 1) had symptoms limited to the premature swelling or elongation of buds.

Dienes' stain. MLOs were detected in the phloem sieve tube elements of 10 of the 11 lilacs with witches'-broom symptoms, and in three of the nine lilacs with symptoms limited to forced buds (Table 1). No MLOs were detected by Dienes' stain in the three specimens without symptoms. In longitudinal sections, clumps of MLOs in phloem sieve tube elements appeared blue against unstained phloem.

Electron microscopy. MLOs were identified by TEM in lilac samples collected December 1983 and May 1984 (Table 1). MLOs were clearly identified in midrib phloem sieve tube elements of leaves from Regan and Royalty. With one exception, samples from these cultivars tested positive by Dienes' stain (Table 1). Identification by TEM was equivocal in Juliet, Nadezda and in one Royalty. The lilac MLOs varied in size from 0.2 to 1 μM and had trilaminar unit membranes, DNA-like fibrils, and ribosomes, all characteristic of plant pathogenic MLOs.

Graft transmission. The grafted lilac began showing witches'-broom symptoms after 5 months, and by 10 months, the grafted Royalty looked like infected Royalty in the field. The presence of MLOs in the phloem of shoots from the grafted lilac was confirmed by both Dienes' stain and TEM.

Virus transmission. No virus was transmitted from the leaves and young shoots of lilac witches'-brooms to the virus indicator plants. No virus-like particles were observed in the phloem while examining tissue for MLOs by TEM.

Table 1. Symptoms in Morton Arboretum lilacs selected for study and results of MLO detection by Dienes' stain and transmission electron microscopy (TEM).

Lilacs	Cultivar	Access. No.	Symptoms ²	MLO Detection ³		
				Dienes' Stain	TEM Dec. 83	TEM May 84
<i>S. x josiflexa</i>	Royalty*	249-75ct	++ +		(+)	
<i>S. x josiflexa</i>	Royalty*	249-75ct	++ +		+	
<i>S. x josiflexa</i>	Royalty*	249-75ctN ¹	++ -		+	
<i>S. x prestoniae</i>	Elinor*	233-75ct	++ +			
<i>S. x prestoniae</i>	Juliet	241-75ct	++ +		-	(+)
<i>S. x prestoniae</i>	Juliet	241-75ct	++ +		-	(+)
<i>S. x prestoniae</i>	Paulina	246-76ct	++ +			
<i>S. x prestoniae</i>	Regan	248-75ct	++ +		-	+
<i>S. x prestoniae</i>	Regan	248-75ctN	++ +		-	+
<i>S. sweginowii</i> *		992-60	++ +			
<i>S. villosa</i>						
<i>x sweginowii</i>	Hedin*	99-77ctN	++ +			
<i>S. emodi</i>	Aurea*	263-76ct	+ -			
<i>S. x josikaea</i> *		240-75ct	+ +			
<i>S. x percica</i> *		498-38	+ +			
<i>S. villosa</i> *		255-75ctN	+ -			
<i>S. villosa</i> *		737-73ct	+ -			
<i>S. vulgaris</i>	Kim	242-75ctN	+ +			
<i>S. vulgaris</i>	Kim	242-75ctN	+ -			
<i>S. vulgaris</i>	Mme Florent					
	Stepman*	837-73ct	+ (+)			
<i>S. vulgaris</i>	Riet					
	Bruidegom	633-65gr	+ -			
<i>S. sweginowii</i> *		253-75N	- -			
<i>S. vulgaris</i>	Emil					
	Liebig*	539-74	- -			
<i>S. vulgaris</i>	Nadezda	313-76ctN	- -		-	(+)

* Asterisk indicates lilacs for which the taxonomic identification has been confirmed as correct.

- 1 N : indicates lilacs in research nursery.
- 2 ++ : witches'-brooms
+ : buds swelling or elongating
- : no symptoms
- 3 + : MLOs detected
(+) : MLOs possibly present but not distinct
- : no MLOs detected

DISCUSSION

We conclude that the likely causal agent of the witches'-broom disease of lilacs at The Morton Arboretum is a mycoplasma-like organism. This is based on the occurrence of witches'-broom symptoms typical of those known to be caused by MLOs, the identification of MLOs in the phloem of symptomatic lilac leaves, and the inducement of MLO infection by graft transmission.

The presence of brooms may not be the only indicator of infection by MLOs. From the Dienes' stain results, lilacs with symptoms limited to the premature swelling or elongation of buds also can be infected. Because lilac buds have a tendency to force during unusually warm fall periods, or after defoliation of the shrubs, this symptom cannot be a reliable indicator of MLO infection.

Electron microscopy confirmed the presence of MLOs in the phloem, and corroborated the legitimacy of the Dienes' stain test for diagnosing MLO infection of lilacs. The difficulty of locating MLOs in plant tissue by TEM, and the variability of MLO titer, could account for the instances where Dienes' stain results were not corroborated by TEM. Alternatively, one Royalty lilac had witches'-broom symptoms and MLOs were identified by TEM, yet they were not detected by Dienes' stain. This suggests the limitations of this diagnostic method; a negative stain test is not always proof of the absence of MLOs in lilacs.

Infected lilacs at The Morton Arboretum were present in both the collection and the nursery. These specimens originated as cuttings that were obtained from an outside source. The introduced cuttings were outplanted together before being transplanted to the present locations in the collection and nursery. This provides circumstantial evidence that the disease was introduced to The Morton Arboretum through infected stock.

The MLO disease of lilac may be significant for several reasons. In addition to disfiguring woody hosts, MLO infection causes a reduction in stem and root growth, disrupts the time and quality of flowering, and results in dieback and mortality (7). Infection by MLOs can predispose woody hosts to climatic stresses. Several of the infected lilacs at The Morton Arboretum died during the severe winter of 1983-84. Because of the transmissibility of MLOs by natural and artificial grafts, through cuttings, and by insects, the disease has the potential to become widespread. We have observed witches'-broom symptoms in other lilac collections.

More information is needed on the impact of this disease on lilac, susceptible and resistant taxa, insect vectors, and its geographical range. With the help of a research grant from the International Lilac Society, we are continuing our investigation of this and other diseases of lilac.

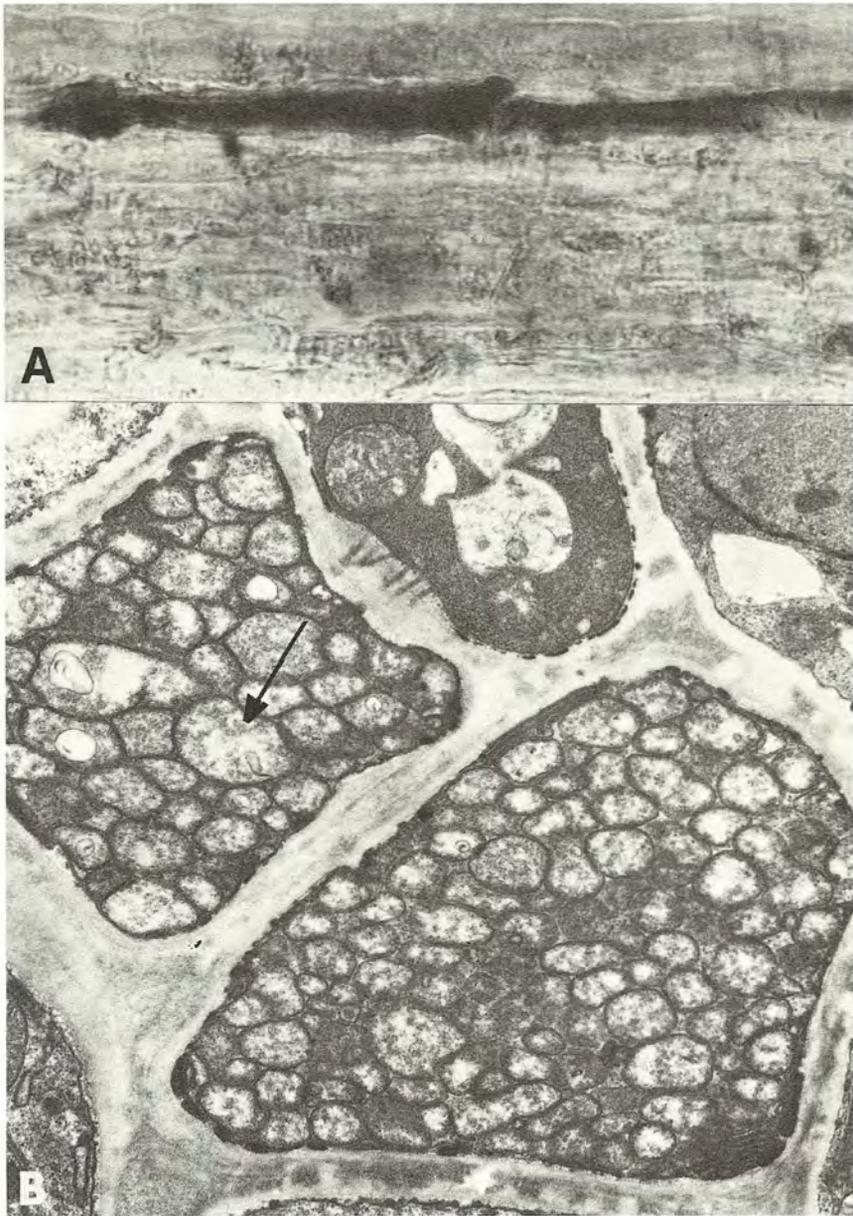


Fig. 2. (A) Clumps of dark (from Dienes' stain) MLOs in sieve tube element of shoot from infected Royalty (600x). (B) MLOs (arrow) in sieve tube element of midrib from forced leaf of infected Regan. Bar = 500 μ M.

Literature Cited

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Correction:

Volume 12, Number 1,

**12th Annual Convention, Madison, WI
May 13 and 14, 1983**

page 37.

Question:

If an application of a bound fertilizer was made just a couple of weeks before the cuttings were taken, would that stimulate rooting?

Answer:

I do not think so. If you fertilize just a couple of weeks prior to taking cuttings, there is a lot of nitrogen which will not be assimilated. Nitrogen fertilizer affects the utilization of carbohydrates in plants. When nitrogen fertilizers are supplied in large amount, the level of carbohydrates will decrease. Since carbohydrates influence root initiation (from research) a low level of nitrogen and high of carbohydrates will favor rooting.

**ANNUAL MEETING
INTERNATIONAL LILAC SOCIETY**

New York, New York

May 17, 1985

The meeting was brought to order by the Executive Vice-President, Mr. William Utley.

The Secretary's report was read and accepted.

The Elections Committee distributed ballots to those needing them. It then retired to count the ballots.

The Treasurer's Report was read and accepted.

Balance brought forward	\$ 17,662.52
Receipts	7,216.13
Expenditures	7,610.44
Present Balance	17,268.21

Mr. Holetich, Membership Chairman, reported that in 1984 the Society lost 55 members but that there were about the same number of new members this year. The largest number of new members come from northeastern United States, due probably to the advertising done by Mr. Chieppo.

Mr. Carvill, Chairman of the Propagation and Distribution Committee, announced that 16 plants each of 'A.M. Brand' and 'Pocahontas' were distributed. The sale brought a profit of \$32.00 to the Society. Wedge Nurseries will be contacted again to see what two varieties can be provided. The committee will offer dormant plants for fall planting. There will be an ample supply.

Mr. Holetich, Chairman of the 1986 Convention, announced that the meetings would be held at the Royal Botanical Gardens, 680 Plains Rd. West, Hamilton, Ontario, Canada, on the last Friday and Saturday of May. "Everyone come and bring a friend." R.B.G. has the largest collection of lilacs in the world — 693 kinds.

There will be no problem bringing plants into the United States as there will be a plant inspector present to fill out the necessary entry forms. Members bringing plants to Canada from the United States should advise Mr. Holetich two months in advance so that import certificates can be arranged for. He suggested that members from the United States bring objects instead of plants to the auction.

Mr. Martin announced that future conventions would be held at the Denver Botanic Gardens in Denver, Colorado, in 1987; at Highland Park, Rochester, New York, in 1988; and at Medina, Ohio in 1989. Mr. Ryniec was thanked by Mr. Martin and the members of the Society for a job well done on the 1985 convention.

Mr. Utley announced that matching funds had been offered for donations to the Gifts and Endowment funds.

Mr. Utley asked for volunteers or suggestions for filling vacancies of Regional Vice-Presidents. At this time vacancies exist in Region 6 — Northwest, Region 8 — Southwest, Region 10 — Western Canada, and Region 11 — Members at Large.

Dr. Rogers, Chairman of the new committee on Research Grants, announced that this year \$800.00 would be awarded to Dr. Craig Hibben for research on Witches Brooms in lilacs.

Dr. Rogers spoke about the State of New Hampshire's new Lilac Commission, of which he is a member. The lilac is New Hampshire's state flower. The commission is encouraging the planting of lilacs throughout the state. Money has been made available to the Highway Department for roadside plantings. Industry as well as citizens are becoming involved.

Dr. Rogers reported that there are just 3 more releases to be obtained for the publication of the 2nd volume of the *Upton Scrap Book of Lilac Information* and that publication would begin this summer.

Col. Schenker announced that the auction committee has initiated a scholarship fund in honor of Mr. William Emerson, a hard working member of the auction committee, who passed away this year. The scholarship will be given one time only. The recipient, to be selected by Dr. Rogers, will be a student at the University of New Hampshire and will be required to present a report of his work to the Society next year.

Col. Schenker explained that due to the large number of plants given to the auction this year, that sale tables would be set up for some of the plants and only the most choice plants would be auctioned. Sales will be before and after the auction. There will be slides shown of the plants to be auctioned.

Mr. Ryniec expressed thanks to Mary, his wife, and to Dr. Thomas J. Delendick for their help with the convention. He also thanked Bruce Riggs of the New York Botanic Garden for arranging the Sunday tour of that institution.

As the Election Committee had still not returned with the election results, the meeting was recessed to the hospitality suite to await the report.

Report of the Elections Committee:
by Mrs. Kara, Chairman

Incumbents Elected:

Mr. Charles Holetich
Mr. Walter Oakes
Mr. William Heard
Dr. Owen Rogers

Non-Incumbents

Elected:

Mr. Neal Holland
Mr. William Horman
Mr. Roger Vick
Mr. Dan Cohen

Mr. William Utley, elected to fill Mr. Chieppo's unexpired term.

The meeting was adjourned by Mr. Utley.

Respectfully submitted,
Sarah N. Schenker
Recording Secretary



**Executive vice-president
William Utley conducted the
Fourteenth Annual Meeting**



**Charles Holetich with gavel,
seventh president of I.L.S.**

REPORT OF 1985 I.L.S. AUCTION COMMITTEE

Because of the large number of plants donated (about 400) and cultivars (about 125) it became necessary to segregate the lilacs into two groups: about 80 percent being sold at retail in four price categories while 20 percent consisting of the rarest and choicest lilacs were auctioned. Fr. Fiala with help from experts did the segregation work. The retail sale was held on Saturday morning and after the auction which was open to the public from 2:00 to 3:30 p.m.. This novel procedure worked out very well.

The Committee wishes to thank all who contributed their time, talents, plants, and money to the success of our sale and auction. Daniel Ryniec and his men at the Brooklyn Botanic Garden received and potted the plants upon arrival and cared for them until they were sold. The lists of lilacs, their colors and geneology provided to bidders was most helpful. Walter Eickhorst, John Carvill and Dan Cohen were most helpful in organizing the auction, spotting bidders and delivering lilacs to successful bidders. Our treasurer, Marie Chaykowski, ably assisted by Elsie Kara and Pauline Fiala, did their usual superb job in tallying bids and handling monies. Charles Holetich's slides of cultivars auctioned were worth a thousand words and Fr. Fiala's words of wisdom about lilac geneology were most helpful. Sally Schenker's notes made reporting much easier. Those spirited bidders and buyers made 1985 our most successful year to date. Our Society's treasury was enriched by \$2,186.00.

Plants and lilac related items were contributed by Royal Botanical Gardens at Hamilton, Ontario, by Agriculture Canada Research Station at Ottawa, by Wedge Nursery, Albert Lea, Minnesota, and by the following members, Pauline Fiala, William Utley and Robert Clark.

Respectfully submitted,
Hanssen Schenker
Chairman



**John Carvill and Dan Cohen delivering lilacs
to successful bidders**

**FINANCIAL REPORT
MAY 1985**

Balance brought forward \$17,662.52

RECEIPTS

Membership	\$2,780.00	
Upton Scrap Book	67.50	
Convention return (Chieppo)	1,662.16	
Lilac Auction	1,224.50	
Publications	19.00	
Lilacs sold thru Newsletter	318.00	
John Wister Memorial	25.00	
Interest	1,119.97	
	\$7,216.13	7,216.13
		\$24,878.65

EXPENDITURES

Nominating Committee (E.K.)	57.30	
Postage and Mailing (P.F.)	500.00	
Publication of "Newsletter" (C.F.)	400.00	
Convention Advance (D.R.)	500.00	
Postage and Photo Charge	19.46	
Shipping and Handling	55.78	
Merks (Awards and Shipping) 1984	897.70	
Propagation (J.A.)	188.00	
J.J. Printing "Proceedings" - 1983	2,401.99	
J.J. Printing "Proceedings" — 1984	1,287.79	
National Council of St. Garden Clubs	15.00	
500 Envelopes and postage (W.O.)	44.26	
Editors Expense (M.S.)	44.56	
Flowers for Chieppo Funeral (O.R.)	33.45	
Propagation (Wedge Nursery)	286.00	
Merks (Awards) 1985	879.15	
	\$7,610.44	7,610.44
	Balance	\$17,268.21

CASH BALANCE RECONCILIATION

Life Membership	\$ 2,700.00
Legal	350.76
By-Laws	210.25
C.C. Clark Fund	700.00
Upton Scrap Books	4,613.23
Hans Conried Memorial	50.00
Ed. and research	3,279.45
John Wister Memorial	120.00
Operating	5,244.52
	\$17,268.21

Respectfully submitted by
Marie Chaykowski, Treasurer

Minutes
I.L.S. Board Meeting

New York, New York
May 18, 1985

The meeting was convened by Executive Vice-President Mr. William Utley at 7:30 AM.

Dr. Rogers moved that the Regional Vice-Presidents be re-elected and that Dan Cohen be elected for Region 1 to replace Mr. Chieppo, and Roger Vick be elected for Region 10, and that the president should be directed to appoint members to fill the remaining vacancies. The motion was seconded by Mr. Martin and passed unanimously.

Mr. Martin suggested that the Southwest Region, No. 8, be subdivided with NV., UT., CO., AZ., and NM., being called the Mountain Area. He will contact Merl Moore in Denver about being Vice-President for this area. The board concurred.

Region 1 Northeast — ME., NH., VT., MA., CT., and RI.
Dan Cohen, Box 71, Sheffield, VT 05866.

Region 2 Atlantic — NJ., NY., and PA.
Mr. John Carvill, 138 Old Loudon Rd., Lathan, NY 12110

Region 3 South — DC., DE., MD. south and west to the Mississippi River.
Mrs. Elsie Kara, R.D. 1, Box 604-5, Anthony, FL 32617

Region 4 Central — OH., IN., IL., MI., and WI..
Mr. William Horman, 246 Chalmers, Detroit, MI 48215

Region 5 West — MN., IA., ND., SD., NE., MT., and WY..
Mr. Max Peterson, Rt. 1, Box 824, Ogallala, NE 69153

Region 6 Northwest — Alaska, WA., OR., and ID..
Vacant

Region 7 Pacific — CA.
Dr. Louis C. Erickson, 5229 Bardwell Ave., Riverside, CA 92506

Region 8A Southwest Mountains — NV., UT., CO., AZ., and NM..
Vacant

Region 8B South Central — KS., MO., OK., AR., TX., and LA..
Vacant

Region 9 Eastern Canada — Newfoundland, Nova Scotia, New Brunswick, Prince Edward Island, Quebec and Ontario. Mr. George Kidd, 62 Steeple Hill Cress, RR #7, Nepean, Ontario, Canada K2H7V2

Region 10 Western Canada — Manitoba, Saskatchewan, Alberta, British Columbia, North West Territory and Yukon Territory.

Mr. Roger Vick, Curator, Devonian Botanic Garden, University of Alberta, Edmonton, Alberta T6G2E9

Region 11 Members at Large — Vacant

ELECTION OF OFFICERS

Mr. Utley asked for nominations from the floor.

President:

Nominated were Mr. Utley, Dr. Rogers and Mr. Holetich. Votes were by Australian ballot. **Mr. Holetich** was elected.

Executive Vice-President:

Nominated — **Mr. Utley**. The secretary was instructed to cast one ballot for Mr. Utley.

Secretary to the Society:

Nominated — **Mr. Walter Oakes**. The secretary was instructed to cast one ballot for Mr. Oakes.

Recording Secretary:

Nominated — **Mrs. Pat Cohen**. The secretary was instructed to cast one ballot for Mrs. Cohen.

Treasurer:

Nominated — **Mr. Eickhorst**. The secretary was instructed to cast one ballot for Mr. Eickhorst.

Editor:

Mr. Eickhorst moved that the president be authorized to appoint an interim Editor. The motion was seconded by Mr. Carvill and passed unanimously. Dr. Rogers agreed to accept the appointment until September. Mr. Holetich explained that he would not need the transfer of funds voted on May 16 if he were no longer Editor. Dr. Rogers instructed to bill the Treasurer for his expenses.

Lilac Identification: Color Charts

The **Ad Hoc** committee has met but their work is not complete at this time. No computer is available at present but the committee will search for one.

Check List: Mr. Freek Vrugtman

There has been no progress. Dr. Rogers will write to the Director of R.B.G. to ask his help in expediting the Addendum et Corrigendum to the "*Tentative International Register of Cultivar Names in the Genus Syringa.*"

The 1985 Meetings of the Society were adjourned at 9:00 AM.

Respectfully submitted,
Sarah N. Schenker
Recording Secretary



Sally and Colonel Schenker promote lilacs

Members discuss merits of lilacs at Brooklyn Botanic Garden





Father Fiala receives prestigious Directors' Award from the new president

The Directors' Award

presented to

Father John L. Fiala

of Medina, Ohio and Ocala, Florida

For his persistent dedication to the Lilac from youth.

For investigating inheritance characters manifested in superior types of Lilacs.

For pioneering with colchine to induce multibreding in woody plants, including the Lilac.

For coining the term 'multibrid' to denote gene mixes involving more than two species; for seeing the potential breakthrough for improving the common Lilac.

For his contribution to the literature of the Lilac and for graciously sharing his profound knowledge of the Lilac with fellow breeders and for the enjoyment of all lovers of the Lilac.



Elizabeth Hall, librarian emerita of New York Botanical Garden and Horticultural Society of New York

May 1984

The President's Award

presented to

Gertrude Hodgdon and Hambest Nursery
of Randolph Center, Vermont

For one of Vermont's outstanding Lilac Gardens displaying some of the finest lilac cultivars and making these available to the public and for opening this garden for public display.

presented to

Walter and Gloria Oakes
of Dixfield, Maine

For their outstanding Lilac collection and garden that is one of the largest lilac collections in Maine of new and fine cultivars.

For making many of these lilac cultivars, unobtainable elsewhere, available to those who grow and cherish lilacs.

For making their excellent lilac collection open for public viewing and appreciation of the Lilac.

May 1985

presented to

The Brooklyn Botanic Garden

For seventy-five years of public instruction in horticulture through its many programs, displays and publications of outstanding merit;

For promoting plant sciences through research programs which included the lilac;

For developing and maintaining superb living plant collections including the Louisa Clark Spencer Lilac Collection for public viewing, instruction and enjoyment in a quiet oasis;

For magnificently hosting the Fourteenth Convention of the International Lilac Society.

presented to

Elizabeth Scholtz

Vice-President of the Brooklyn Botanic Garden

For her services to the citizens of the Borough of Brooklyn in directing research in the plant sciences and in maintaining a garden of peaceful beauty which includes a collection of lilacs for the instruction and enjoyment of all.

presented to

Craig R. Hibben

of the Brooklyn Botanic Garden

For his continuing efforts in research on diseases of plants in general, but especially of diseases to lilacs and in finding ways to control and eliminate diseases for the benefits of professional and home gardeners alike that they may enjoy healthy and beautiful lilacs.

presented to

Edmund O. Moulin

of the Brooklyn Botanic Garden

For his many years as Director of Horticulture for initiating and coordinating horticultural programs and for supervising the planting and maintenance of living plant collections including the Louisa Clark Spencer Lilac Collection for the public to study and learn the international character of modern lilacs while enjoying their floral beauty and fragrance.

presented to

Daniel K. Ryniec

of the Brooklyn Botanic Garden

For his continued interest in the lilac and his skill in growing lilacs for the public's enjoyment and education, and for his serving as Chairman of the Society's Fourteenth Convention.

presented to

The New York Botanical Garden

For its continuing public instruction in horticulture through educational programs, floral displays and valuable publications;

For programs in plant research supported by its world renowned library and herbarium;

For its extensive living plant collections, especially the Theodore A. Havemeyer Lilac Garden which are maintained for the study and enjoyment by the public.

presented to

William Bayard Cutting Arboretum

of Long Island State Park Commission

For its unique collection of living plants in an atmosphere of beauty and quiet for the public's enjoyment and instruction;

And to commemorate the founding of the INTERNATIONAL LILAC SOCIETY at this site in May 1971



**Daniel Ryniec, chairman of
Fourteenth Annual Meeting,
receives Awards of Merit**

The Award of Merit

presented to

Gordon Jones

Director of Planting Fields, Oyster Bay, New York

For his many years of devotion to gardening and horticulture and for maintaining extensive plant collections including our beloved lilac for public viewing, enjoyment and education.

presented to

Louisa Clark Spencer

For her continued support of research and education in plant sciences, especially in the creation of a pre-eminent Lilac Collection at the Brooklyn Botanic Garden which bears her name;

For her abiding devotion to cultural needs through service as President of the Brooklyn Botanic Garden and her leadership since 1977 in achieving private incorporational status for this outstanding Garden.

presented to

Charles D. Webster

of the Horticultural Society of New York

For inspired leadership and faithful service to horticulture and gardening as President of the Society once guided by our beloved Theodore A. Havemeyer, breeder of superb lilacs.



Attending the Awards Banquet: Dr. Joel Margaretta (left) and newly elected Treasurer Walter Eickhorst (right) with lilac bouquet

presented to

Elizabeth Hall

Librarian Emerita, of the New York Botanical Garden and
The Horticultural Society of New York

For her continuing dedication in serving the plant-minded public through her devotion to the literature of plant science and the history of the gardening art;

For her broad knowledge of plants including the lilac and her skill in library science to assist scholars and the gardening public in research and knowledge.

presented to

Joan Lee Faust

Garden Editor of the New York Times

For her devotion to gardening and horticulture through her writing and editorial skill and for her interest in garden plants including the magnificent lilacs.



Arch McKean (left) congratulates Jonathan Chieppo receiving the Arch McKean Award for his late father while Charles Holetich approves

(This is a new award to be given each year — About the size of the Award of Merit)

Arch McKean Award

For publicizing the Lilac and promoting the International Lilac Society

presented to **Thomas N. Chieppo** *posthumously*

For outstanding service in obtaining new members and publicizing the society, 1984-1985.



Louisa Clark Spencer accepts award while Elizabeth Scholtz stands aside

Recipients of Awards of the International Lilac Society

Honor and Achievement Award:

Highest award given by the Society; given only for outstanding work, dedication and service to promoting the lilac or the Society. To be considered for the award the individual's contributions must be truly outstanding and of benefit to the whole Society. It is awarded only to individuals and not to institutions, given only once to any individual and need not be presented annually.

John C. Wister, 1972
Albert E. Lumley, 1974
Fr. John L. Fiala, 1976
Robert B. Clark, 1976
Lourene B. Wishart, 1979
Isabel Zucker, 1980
Dr. Joel Margaretten, 1983
Dr. Owen M. Rogers, 1984

Directors' Award:

Awarded by the Society only to those engaged in the improvement of the lilac through hybridization, scientific selection or selective research to improve the quality of the flower of the lilac plant. It is intended as an award for outstanding work with the lilac. It is to be considered as the highest scientific horticultural award given by the Society.

Richard A. Fenicchia, 1972
Leonid A. Kolesnikov, 1973
Dr. James S. Pringle, 1974
Dr. N.L. Mikhailov, 1977
Dr. Owen M. Rogers, 1979
Dr. Donald R. Egolf, 1980
John H. Alexander III, 1984

President's Award:

Awarded to the arboretum, public or private park or garden for outstanding collections and public display of lilacs, work with promoting the growing and landscape uses of the lilac, outstanding landscaping with lilacs or major research with lilacs. It is an institutional or park-garden award. Its purpose is to encourage the planting of lilacs for public display and education. It is not intended for strictly private gardens (no matter how great their excellence).

Highland Park, Monroe County Parks Department, 1972
Arnold Arboretum, Harvard University, 1973
Royal Botanical Gardens, 1974
The Morton Arboretum, 1975
Lilacia Park, Lombard Park District, 1975
Grape Hill Farm, William and Lois Utley, 1976
Scott Horticultural Foundation, Swarthmore College, 1978
John J. Tyler Arboretum, Lima, PA, 1978
Falconskeape, 1980
Gardenview Horticultural Park, Strongsville, OH, 1980
The Holden Arboretum, 1980
Ewing Park, Des Moines Park Board, 1981
Heard Gardens Ltd., 1981
Meadowlark Hill Farm, Ogallaga, NE, 1981
Dominion Arboretum, Agricultural Canada Research Station, 1982
Canadian National Capital Commission, Ottawa, 1982
Albert Lea Nursery, Don Wedge Prop., 1983
Bickelhaupt Arboretum, Davenport, IA, 1983
University of Wisconsin Arboretum, 1983
Birchwood, Meredith, NH, 1984
Hamesbest, Randolph Center, VT, 1984
Walter and Gloria Oakes, Dixfield, ME, 1984
Town of Woodstock, VT, 1984
Glen of Aherlow, East Burke, VT, 1984



Elwin McDonald, director of Bayard Cutting Arboretum, receives award

Award of Merit:

Given to individuals or institutions, public or private, for outstanding contributions in promoting, growing, researching or working with the lilac or the Society. It is intended to be given regionally as an "International Recognition for work over and above the average" — for outstanding promotion, for public education, for scientific research work, or for horticultural excellence. A recipient may receive this award only once for the same work (but more than once for several contributions of equal merit).

Miss Minerva Castle, 1972
Robert B. Clark, 1972
Dr. William A. Cumming, 1972
Mark O. Eaton, 1972
Alvan R. Grant, 1972
Mrs. Lourene Wishart, 1972
J. Herbert Alexander, 1973
Ken Berdeen, 1973
Alfred J. Fordham, 1973
Miss Mabel Franklin, 1973
Professor E.M. Meader, 1973
Dr. Radcliffe B. Pike, 1973
Leonard Slater, 1973
Orville M. Steward, 1973
George Dalby, 1974
Ray Halward, 1974
Charles Holetich, 1974

Dr. Leslie Laking, 1974
Fred Lape, 1974
Mrs. Anne Robinson, 1974
Walter E. Eickhorst, 1975
Michael Katnik, 1975
Cantigny Memorial Park and Gardens, 1975
Arch McKean, 1975
Mrs. Isabel Zucker, 1975
Dr. Joel Margaretten, 1975
Clare E. Short, 1975
Interstate Nurseries and the Sjulín family, 1975
Richard A. Fenicchia, 1976
Joseph Dvorak, Jr., 1976
Albert E. Lumley, 1977
Dr. Walter E. Lammerts, 1977
Historic Deerfield, MA, 1977
Robert Forsythe, 1978
Alvan R. Grant, 1978
Mrs. Nancy Emerson, 1979
Cora Lydon, 1979
Walter W. Oakes, 1979
Woodland Garden Club, Washington, 1979
University of New Hampshire, 1979
Strawberry Banke Historic Monument, 1979
Governor Wentworth House, 1979
Governor and Legislature of New Hampshire, 1979
Charles L. Knight, 1980
Winfried H. Martin, 1980
R. Henry Norweb, Jr., 1980
Betty Stone, 1980
John and Atheline Wilbur, 1980
Mary C. Smith, 1981
Fleeta Brownell Woodroffe, 1981
Wilson Stampe, 1981
Better Homes and Garden Magazine, 1981
Arthur R. Buckley, 1982
Trevor J. Cole, 1982
Colonel Hanssen Schenker, 1982
Dr. Edward R. Hasselkus, 1983
Herbert H. and Gertrude F. Trautman, 1983
John E. Voight, 1983
Kenneth W. Wood, 1983
Marie Frances Chaykowski, 1984
Elsie Lenore Kara, 1984
Pauline Lucille Fiala, 1984
Mary C. Smith, 1984
Roger F. Luce, 1984