

Newsletter



1993
No. 2
June

Royal New Zealand Institute of Horticulture (Inc.)



Mike Oates

Chairman, R.N.Z.I.H. National Executive

Mike gained a Bachelor of Horticultural Science at Reading University in 1976 and emigrated to New Zealand the following year. He worked for Duncan and Davies in New Plymouth for two years and then spent six months working as a research assistant at Lincoln College. This was followed by a period overseas before returning in 1981 to take up a tutorial position in Horticulture at the Technical Correspondence Institute (now The Open Polytechnic of N.Z.) Then followed eight years of tutoring students studying towards National Certificates and Diplomas in Horticulture. In 1991 Mike was appointed Curator of Wellington and Otari Botanic Gardens, a position he currently holds.

Mike has had an involvement with the R.N.Z.I.H. since 1981, first becoming involved in the Wellington Branch and being elected to National Executive in 1987. He has been Chairman since 1990.

Particular interests include the conservation of plants and the compilation of the Plant Collections Register, an important first step to help identify the extent of the plant genetic resource in New Zealand. Also a strong interest in improving plant nomenclature and correct identification of plants in gardens and the nursery trade. The production of checklists of native cultivars is an important step, being carried out by the Institute.

For the future, a continuing interest in horticulture and the establishment of a plant collections network, enabling plant collections to work more closely together.

R.N.Z.I.H. At Field Days

The Royal New Zealand Institute of Horticulture was represented at the recent 25th Mystery Creek National Field days, June 16-19.

After an indifferent start, the weather this year was settled and over 140,000 visitors attended over the 4 days. It is estimated that \$120 million of business was transacted.

R.N.Z.I.H. shared a stand in the feature horticulture pavilion with the N.Z. Arboriculture Association and the New Zealand Horticultural Cadet Training Association. Much interest was shown in Horticultural Education and the work of the Notable & Historic Trees Scheme, and staff were kept very busy answering queries and supplying information.

Waikato Branch members provided invaluable assistance with the 'greening' and manning of the RNZIH stand. The constant stream of visitors indicated a high level of interest in our organisation.



R.N.Z.I.H. / N.Z.A.A. Annual Conference

"Plants from Here and There"

14-17 October 1993

to be held at Larnach Castle, Dunedin

Lectures, Excursions, Annual Dinner,
registration form on back page - programme details inside.



Obituary

The R.N.Z.I.H. deeply regrets the passing of two of its long standing members, and pays tribute to them for their services to the Institute and to horticulture.

The death occurred on 2 April of **Dr. E.E. Chamberlain**, a former Director of Plant Diseases Division, DSIR. Dr. Chamberlain was one of the last of those scientific pioneers who helped establish the Mt. Albert Research Centre more than half a century ago.

In 1986 Dr. Chamberlain was elected an Associate of Honour of the R.N.Z.I.H. in recognition of his outstanding services to New Zealand horticulture.

Frank Dorofaeff spent 40 years with the Department of Agriculture (subsequently M.A.F), retiring in July 1982. During this period he spent 20 yrs working in Indonesia. His principal work in MAF involved the analysis of plant materials for essential elements.

Frank was a Fellow of the R.N.Z.I.H. and for approximately 30 years was a member of the Waikato Branch. He died in October 1992.



TreeBank Established

TreeBank has been formed by a group of active tree lovers concerned with the accelerating loss of tree life in other countries and here in New Zealand. The intent is to increase the chances of survival of the widest genetic variation of threatened tree species. The plan is to concentrate on New Zealand's indigenous 'at risk' species in the immediate future, as

this gives the opportunity to build up regional networks, nurseries, information and seed exchange skills. As and when seed does arrive from overseas it will be dealt with, but TreeBank will be growing regardless.

TreeBank subscription - \$5
for further information write to :
TreeBank, P.O. Box 9159,
Newmarket, Auckland.



Welcome to the following New Members

- | | |
|-------------------|--------------|
| Miss A.BARWICK | LINCOLN |
| Mrs. E.CALVERLEY | FEILDING |
| Mr I.CHALLENGER | WANGANUI |
| Mr. G.DECENT | KIMBOLTON |
| Mr. R.FAIRWEATHER | ROTORUA |
| Ms. F.FORSYTH | WELLINGTON |
| Mrs. J.FRASER | MOSGIEL |
| Mr. M.GERRAND | TUAKAU |
| Miss C.GRIFFITHS | FEILDING |
| Ms. P.HALCOMBE | HAMILTON |
| Miss M.KASHUBA | KAEO |
| Miss B.KIRKWOOD | CHRISTCHURCH |
| Mr. L.PARKINSON | COROMANDEL |
| Mrs M.PARTRIDGE | OHAUPO |
| Mrs. M. PERKINS | LOWER HUTT |
| Mr. R.PLATT | AUCKLAND |
| Mrs. M.REEVE | AUCKLAND |
| Ms. R.SALTER | WELLINGTON |
| Ms. C.SMITH | WELLINGTON |
| Mr. K.VAL'A | TE AWAMUTU |
| Mr. M.VALK | KAWERAU |
| Mr M.WALKER | TE AROHA |



Congratulations

To the following students who were not included in the list of successful students (1992 examinations) published in the last Newsletter :

J.D. Wilson - Pukekohe
Awarded the Dugald McKenzie Prize for the best Project in Schedule 1

J.E. Ryan - Marton
Awarded the R.N.Z.I.H. Prize for the best Project in Schedule 4

R.L. Brittain - Auckland
Completed N.D.H. Schedule 1
J.D. Chilcott - New Plymouth
Completed N.D.H. Schedule 1
M.J. Cole - Auckland
Completed C.H.T.
R.A.M. Underwater - Hamilton
Completed C.H.T.



Attention!

All Horticulturists and those who work with plants and gardens everywhere.

Introducing the New RHS Dictionary of Gardening. - the most authoritative Encyclopedia of Horticultural Science and Plant Taxonomy ever published.

● Totally up-to-date taxonomic and horticultural information on virtually every plant in cultivation.

● The latest thinking on new horticultural practices - issues as diverse as genetics, plant tissue culture, ethnobotany, conservation and the impact of pesticides.

4 Volumes, 3,200 Pages, 4,000 illustrations, 60,000 Plant Entries, 180 General Articles, 170 Biographies, Cross References, Indexes, Glossaries, and Bibliography, Published April 1992, List Price \$1,200.

30 day trial offer, easy payment scheme.

Contact Melodie John, Macmillan Education Australia P/L, 107 Moray Street, South Melbourne, Vic 3205. Phone (03) 699 8922, Fax: (03) 690 6938 for information, free copy of 16 page prospectus, or order form.



People, Plants and Conservation Conference Proceedings

Comprehensive proceedings of this important conference on botanic gardens are now available from Denis Hicks, R.N.Z.I.H. Wellington Branch, 19 Waddington Drive, Lower Hutt. Cost \$20 (includes GST and postage). They contain papers that give a New Zealand perspective on botanic garden management, plant conservation, promotions and fund raising, and collection management.

RNZIH/NZAA Conference Programme

"Plants from Here and There"
14-17 October 1993 at Larnach Castle Dunedin

Thursday 14 October

- 10.00 am-4.00 pm RNZIH Executive Meeting, stopping for lunch at 12.00 noon.
- 11.30 am- 6.30 pm Registration
- 12 noon - 1.00 pm Lunch
- 1.00 pm - 5.30 pm Excursions Sandymount Reserve, horse riding, Castle Gardens, visit private garden at Sandymount.
- 5.30 pm - 6.30 pm Dinner at Larnach Castle
- 6.30 pm - 7.00 pm Travel time to Carnegie Centre
- 7.00 pm Carnegie Centre, Otago Wine & Otago food will be served.
- Opening of Art Exhibition, "The Green Realm"
- 7.30 pm Mayoral Reception

Friday 15 October

- 7.30 am - 8.30 am Breakfast
- 8.30 am - 9.00 am Registration
- 9.00 am - 9.30 am Opening of the Conference Programme
- 9.30 am - 10.30 am Helen Leach "The Emergence of National Identity in New Zealand Gardening"
- 9.30 - 12 noon Bill Matthews, Russell Harris, Mick Reece, Kevin Weir, "Tendering of Horticulture and Tree Contracts"
- 10.30 am - 11.00 am Morning Tea
- 11.00 - 12.00 noon Denis Hughes "Early Plant Introductions in N.Z."
- 12 noon - 1.00 pm Lunch
- 1.00 pm - 5.00 pm Business for Change - A Series of Business Lectures; (A) - "Small Fat and Happy", (B) - "Gaining the Permission of the Market Place", (C) - "The First Line in Good Customer Service"
- 1.00 pm - 2.00 pm Jenny McGimpsey "Essential Oils & Other New Crops"
- 2.00 pm - 3.00 pm David Shillito, "Hazelnuts and other crops of Oregon"
- 3.00 pm - 3.30 pm Afternoon Tea
- 3.30 pm - 4.15 pm Verdun Burgess, "Development of Viticulture in Central Otago"
- 4.15 pm - 5.00 pm Ian Hall, "Some Exotic Edible Mushrooms and Their Cultivation"
- 5.00 pm - 5.30 pm Drinks
- 5.30 pm - 6.30 pm Dinner, Larnach Castle
- 6.30 pm - 7.00 pm Travel time to University of Otago
- 7.00 pm - 10.00 pm Banks Memorial Lecture by Mr. Britt Smith, "Rhododendrons: The Sikkim Adventure 1990 & 92"

Saturday 16 October

- 7.00 am - 9.00 am - NZAA Executive Breakfast Meeting
- 8.00 am - 9.00 am Breakfast
- 9.00 am - 12 noon RNZIH Annual General Meeting
- 9.00 am - 10.00 am Robin Lucas "Integrated Pest Management"
- 10.00 am - 10.30 am Morning Tea
- 10.30 am - 12 noon Bill Matthews, David Glenn, "Urban Tree Care"
- 12 noon - 1.00 pm Lunch
- 1.00 pm - 5.00 pm Historic Tree Tour, Taieri Plain & Notable Trees 300th Registration
- 1.00 pm - 1.30 pm Alice Lloyd-Fitt "Early History of Employment of Women in the Botanic Garden of Dunedin"
- 1.30 pm - 2.00 pm Peter Heenan, "Studies on the First Artificial Hybrids in the New Zealand Flora - *Hebe x andersonii* and *H. x franciscana*"
- 2.00 pm - 2.30 pm Pat Stuart, "Companion plants for Rhododendrons"
- 2.30 pm - 3.00 pm Bill Nagle, "Permaculture"
- 3.00 pm - 3.30 pm Afternoon Tea
- 3.30 pm - 4.00 pm Peter Johnson, "Wild flowers of Central Otago"
- 4.30 pm - 5.00 pm Bruce and Dorothy Hamilton "The Propagation and Culture of Tree Peonies"
- 5.00 pm - 5.30 pm Drinks
- 5.30 pm - 7.30 pm Free Time
- 7.30 pm Annual Dinner, Presentation of Awards

Sunday 17 October

- 7.30 am - 8.30 am Breakfast
- 8.30 am - 9.00 am Travel time to the Dunedin Botanic Garden
- 9.00 am - 9.30 am Official Opening of Rhododendron Week, Botanic Garden Market
- 9.30 am - 2.30 pm Climbing Jamboree staged at Dunedin Botanic Garden
- 9.30 am - 12 Noon Mick Reece, et al. "Guided and/or unguided walk through the Dunedin Botanic Garden"
- 12 noon - 1.00 pm Lunch - Larnach Castle
- 1.00 pm - 4.30 pm Trade Display at Courtyard, Larnach Castle
- 1.30 pm - 2.30 pm Margaret Barker, A Tour of Larnach Castle
- 2.30 pm Official Closure of Conference
- 4.30 pm Barbeque at Larnach Castle

Monday 18 October

- Post Conference Excursion "A trip to Central Otago"
- Excursions (lunch included) to Jolyon and Enny Manning's property "Jolendale Park", Central Otago Vineyard "Black Ridge", Crayfish Farm.

"Garden Literature"

The Gardening Librarian

by Tira Khan

Although South End, Boston, U.S.A. resident Sally Williams quit her job as a librarian to devote her life to gardening, these days she has less time to cultivate her backyard than before.

Williams, who started Garden Literature Press last January, has already published three quarterly issues of "Garden Literature: An Index to Periodical Articles and Book Reviews" and expects to issue a 1992 year compendium next month. She began the company after searching in vain through many indexes looking for garden articles she had previously read.

"I knew I had read the information, but I didn't know where, there was no one index to look it up," she says, adding her book's closest rival is "Horticulture Abstracts," a technical guide published in England that costs \$484 per year, a royal sum compared to Williams' \$50 to \$75 subscription rate.

Williams' indexes present hundreds of listings on recycled pages on the many facets of gardening. Topics include horticulture, architectural design, landscape design, medicinal uses for plants, and even garden history. She says she reads every article she indexes, which isn't surprising considering she's worked in libraries for the past 20 years.

National and international clients subscribe to the index, as well as several public libraries.

from South End News, Boston U.S.A.

For further information :
Garden Literature Press
398 Columbus Ave, Suite 181,
Boston MA 02116-6008 U.S.A.

LOST

Large green and white banner, last seen about 2 years ago, it bears the name of The Royal New Zealand Institute of Horticulture (Inc) in large letters.

Does anyone know of its whereabouts? If so we would like to hear from you.

Please Contact:
Rodger McCarthy, Executive Officer, R.N.Z.I.H. P.O. Box 12, Lincoln University, Canterbury.

Certification of Horticulturists is Now a Reality in USA

by J. Benton Storey

For the first time in history it is now possible to be a Certified Professional Horticulturist (CPH). Horticulturists are being certified by a six-member sub-board of horticulturists nominated by ASHS and appointed by the American Society of Agronomy (ASA). The CPH programme is one of six certifications awarded by the American Registry of Certified Professionals in Agronomy, Crops and Soils (ARCPACS). Plant pathology and weed science certifications are also now available. The CPH programme identifies individuals qualified for education, scientific and service activities with the public and private agencies. The Individuals listed in the Registry have met the educational and practical experience standards, subscribed to a Code of Ethics, and qualified for recognition as professionals.

Professional competence is needed by those persons who affect the well-being of the general public. Standards for such professions as medicine, landscape architecture, law, engineering, and accounting already have been established and recognised. Horticultural professionals need to be able to show evidence of their qualifications due to increasing land and agricultural laws. There are already laws governing land-use, crop production practices, plant quality standards, waste management and agricultural chemicals. A certification programme that identifies horticultural professionals who are qualified to assist the public and private industry with educational, scientific and service activities is in the public interest.

ARCPACS was established to develop standards and procedures for certification of individuals qualified as professionals in various agricultural professions, including horticulture, and to maintain and publish a registry of certified professionals. The designation of a qualified horticulturist as Certified Professional Horticulturist provides the long-awaited proof that is needed by many horticulture graduates who are working in industry, consulting, and other areas where professionals are needed.

Some of the reasons for certification are to:

- promote and encourage professional development, growth and renewal;
- enhance the visibility of the profession;
- maintain and promote high standards of performance by all members of the profession; and
- provide a Code of Ethics for professionals.

One benefit to the horticulturist and the public is that the Registry identifies trained professionals who maintain competence in their fields of specialisation. An individual may be called on to provide factual information on issues pertaining to horticultural science and public concern. For example: consulting for industry and commercial agriculture; giving expert witness; advising agencies of government; and providing valid information to the Communication media. Members of the Registry maintain high standards of conduct and are recognised as certified professionals by their peers as well as the general public.

Those with BS degrees and five years of experience, MS degrees and three years of experience, or PhD degrees with one year of experience are eligible. They must have transcripts showing credit for the minimum core requirements or pass a written examination. Most graduates of BS programmes in horticulture should have no difficulty meeting the core requirements.

Certification has proven to be very popular with BS graduates in other societies who are working in the private sector. It is anticipated that the CPH programme will have a similar positive effect on horticulture BS graduates. Future ASHS Annual Meetings may feature short courses designed to provide Continuing Education Unit (CEU) credit for certified professionals. In this way ASHS can provide a service to BS graduates in addition to its long and enviable record of service to PhDs.

It is acknowledged that there is a time lapse between completion of the degree and completion of the minimum work experience required to be eligible for full certification. The Associate Professional

Horticulturist (APH) category has been created for those who lack the work experience for CPH consideration.

Certification may be renewed annually for five years by payment of the appropriate fee. To ensure the validity and integrity of certification, certified professionals must submit evidence of continuing education to maintain Certified Professional status. In each five-year period, a CPH is required to accumulate a minimum of nine CEUs that may be in formal training, publications, presentations, and other professional activities. The ARCPACS Board is in the process of voting on reducing the CEU qualification time from five to three years and introducing a new required category on environmental safety.

Various ASHS Committees have worked intermittently on the development of professional standards since 1976 (which is the same time that ASA began the process). The difference in the two approaches was that ASHS tried to develop an accreditation procedure for programmes similar to those in landscape architecture and engineering. The second step was to have been certification of individuals from accredited programmes. For whatever reason, the accreditation-certification proposal did not win approval. ASA's original objective was to certify individuals based on a core of courses in its BS programme, with an examination filling in core deficiencies. ASA's success in implementing its certification programme is evident in the strength of ARCPACS. The American Phytopathological Society and the Weed Science Society of America have joined with ASHS in accepting the ARCPACS offer to certify professionals in their societies.

J. Benton Storey is Chair of ARCPACS Horticultural Sub-Board, Department of Horticultural Sciences, Texas A&M University College Station, USA.

Reprinted from the American Society of Horticultural Science (ASHS) Newsletter Vol 8 No. 10, October 1992 in Agricultural Science March 1993.

N.Z. Arboricultural Association

News & Forthcoming Events



Climbing Jamboree Rotorua - During the 1993 Trees and Forest Week, there will be a climbing jamboree organised by Bob Cowan, in Rotorua on Saturday August 14. Contact Bob at FRI, P.B., Rotorua.

Draft Standard, pruning trees near electricity transmission lines - The Min. of Energy has just released a draft proposal for a new standard which regulates the requirements for tree pruning near powerlines. NZAA is currently preparing a submission in conjunction with RNZIH Notable Trees Convenor, Ron Flook.

Trees in danger - In the Main street of Palmerston North trees are doomed to be removed by the Council. It raised hefty protests and a concerned citizen organised a petition for retention of the trees and collected over 600 signatures in favour of the trees. Are attitudes really changing??

Also the Lime tree in Dunedin, which made it in the national news network, is still holding out. At present a hearing is under way where public submissions will be heard. One senses that a lot of public support exists for retainment of this tree.

In Auckland there were major outcries when a developer felled a mature Kauri tree to replace it with a concrete structure. A need for better comprehensive tree protection looks obvious.

NZAA Approved Contractors - Becoming an NZAA Approved Contractor raises the professional image of your business. Consider to apply for examination. Enquiries with the NZAA P.O.Box 16 Lincoln University Canterbury

Auckland Tree Council - The ATC has taken the initiative to publish a Tree Directory, which contains much general tree information as well as a list of contractors, currently undertaking tree work in the Auckland Region. NZAA has also its activities highlighted and our regional members are listed.

RNZIH - NZAA Conference "Plants from Here and There 1993, Larnach Castle Dunedin - To encourage all all of our membership to attend this conference, we have appointed a BROOKER TRAVEL DUNEDIN as our official travel agents. AIRFARE Bookings via 0800-800-630 (toll free) guarantee 45% discount if you are an earlybird, late bookings are still guaranteed 30% discount. So, book now and make use of this unique setup for your conference air travel arrangements.

Items of SPECIAL INTEREST TO ARBORISTS: Bill Matthews, from Southern Tree Surgeons, England.,

A series of business lectures with the arborist in mind, a Historic Tree Tour, lectures on various tree topics, equipment displays, Climbing Championships (with prizes), and the 300th Notable Tree registration in New Zealand. Furthermore a host of other horticultural topics and time to get to know each other better.

Short courses at Waikato Polytechnic - Woodlot course, two 1-day professional seminars and safe climbing modules. Contact M.Herbert for dates and details.

NZ Safety Standards for Arboriculture are in their final print and due to be released in July of this year.

Employment - TASMAN DISTRICT TREE SERVICE, require an experienced CREW LEADER / CLIMBER

Applicants require a proven ability in Arboriculture.

The position is in the Nelson area and you are invited to send a resume with references as well as wage requirements to:

TDS, Brad Cadwallader, Manager

6 Linden Court Richmond - Nelson 'phone: (0-3) 544 7594 a.h.

Royal Botanic Gardens, Kew

Plant Conservation Techniques Course

The 1992 Earth Summit in Rio drew the world's attention to the importance of the conservation of biodiversity to the future of mankind. This has given added impetus to the establishment of a comprehensive training course in plant conservation techniques at the Royal Botanic Gardens, Kew.

The worldwide need for such a course has long been recognised at Kew and large numbers of individuals from many organisations collaborate with us on a wide range of conservation-related issues.

COURSE DATES; 25th OCTOBER TO 26 NOVEMBER 1993

COURSE FEE: £2,500 + Value Added Tax (VAT)

Syllabus

The following subject areas will be covered:

Conservation and sustainable development after the United Nations Conference on Environment and Development (UNCED).

Strategy planning for plant conservation

Information gathering and management

The balance between *ex situ* and *in situ* methods

Applied population biology for conservation

Collection and cultivation techniques

Seed banking and cryopreservation

Micropropagation

Management of small populations

Habitat management and restoration

International sources of funding

Lecturing Staff

Lecturers will include the Director (Professor Ghilleen Prance) and a wide range of staff representing the full breadth of Kew's expertise.

In addition lecturers will be drawn from other UK institutions and international organisations.

FOR FURTHER DETAILS PLEASE CONTACT:

Education and Marketing Department, Royal Botanic Gardens, Kew, Richmond, Surrey TW9 3AB, United Kingdom.



R.N.Z.I.H. Branch News

North Taranaki Branch

Members of both North and South Taranaki Branches joined forces on 4 April and 9 May to visit properties at Oakura and Omata respectively.

The first property viewed was a collection of Gerberas grown by member Mr. Archie Duff, who gave us the following information regarding these South African plants.

Deep cultivation is essential, a base fertiliser mix by weight is 1/2 sulphate of ammonia, 1/2 sulphate of potash, 4 parts superphosphate, 1 part fishmeal and 1 part dried blood. A foliar liquid spray of Nitrosol is advantageous during the growing period. Ridomil MZ72WP is the recommended fungicide to control white rust.

The next call was to N.Z. Gentians Ltd., here Brendan Edwards generously gave of his time to lead to party through the extensive polypropylene shade house. There was at least a hectare under this material which had withstood Cyclone Bola and beyond its guaranteed length of life.

We next visited Woodleigh Nursery, home of Gail and Glyn Church. The rich volcanic soil and regular rainfall, with few frosts ensure that a wide range of trees, shrubs, perennials, bulbs and climbers can be grown.

The small gully in which we started was sheltered by taller trees amongst which were the Mexican Hand Plant *Cheirostemon platanoides*, which, when in flower, has five scarlet stamens whose filaments are united at the base and recurved at the top, giving them the appearance of a hand. Nearby was the prickly stemmed Flos silk tree *Chorisia speciosa* supposedly impossible to strike from cuttings but Glyn's magic touch had successfully rooted some.

We visited the garden of John Matthews, a 4 acre property at Omata.

Following on in the tradition of his parents who created the renowned 'Tupare' gardens, John, using only native plants, is landscaping gully hillside and pah site to enhance

and shelter the homestead with its magnificent view.

This relatively new garden of New Zealand plants was most interesting and credit to John Matthews for bringing such a collection. The rich diversity of form, foliage types and often neglected native plants can be used in a garden setting to create a unique landscape that is worth visiting at any season.

Fruity News

The "most interesting" citrus cultivar, with budwood becoming available next February is 'Bay Gold'. It is a clementine-seminole hybrid for which the plant variety rights have been applied. Frost sensitive, excellent appearance, easy to peel, good flavour if picked late and completely seedless.

Already 43 overseas citrus cultivars have been released including clementines, satsumas, lemons and oranges. 'Star Ruby' is a grapefruit bred in Texas. 'Sweet Tangor' is an orange mandarine cross that Hort. Research thinks has commercial potential. 'Yen Ben' is a Lisbon strain lemon which can be grown on trifoliate root stock and is a superior looking fruit.

New apples include the Gala-Splendour cross 2085 and 'Pink Lady' which is an Australian cross between 'Lady Williams' and 'Golden Delicious'. The latter has excellent keeping qualities and has the sweetness of a 'Fuji' and the tangy tartness of a 'Braeburn'.

Extracts from the North Taranaki Branch Newsletter June 1993



Wellington Branch

The Branch Annual General Meeting will be on Monday 19 July. Guest speaker, Rob Lucas. Rob visited New Caledonia at the end of 1992 to examine local flora and assess its horticultural potential for New Zealand. Rob's address will be illustrated with slides.

The following new listings from the 1993 Watkin's Seed Catalogue look interesting :

- dwarf scented carnations - "Monarchs" with salmon or imperial purple flowers; - dianthus 'Sweet Rainbow', scented and with flowers

ranging from pinks and rose through to white. - "Temp" series impatiens with pink, burgundy, or white flowers. They are claimed to be ideal for hanging baskets. - Three pansies that look really good in the colour photos. They are 'Frosty Rose' (rose edged white), 'Cream Puff' (cream), and 'Romeo and Juliet' (a range of shades from yellow to cream and coral with contrasting shadings).

August Meeting

Monday 16 August "Focus on the Changes to Hort. Qualifications" to be held at the Education Centre, Wellington Botanic Garden at 7.30 pm. Admission free.

Ian Galloway Memorial Lecture

The Memorial Lecture was held at the Education Centre, Wellington Botanic Garden on 23 March. Alan Jellyman was the guest speaker and his address was titled 'Urban Enhancement - Enhancing the Quality of Life'. Many points in the address were illustrated with slides.

Alan felt that the need to enhance our environment should be a shared duty - local authorities have a major role, but they need support from home gardeners as well as the business sector.

Restructuring - What it has meant for Lower Hutt Parks

This is the title of the address given by Mr. Paul Coles of the Hutt City Council.

In 1989 Central Government put in place changes to ensure local government had transparency, accountability, focussed responsibilities and separation of functions.

Although staff numbers have been reduced, attrition has meant this happened without layoffs. Staff have received benefits such as training in a wide range of skills. Council operations are now very cost effective. Some other benefits are improved parks, walkways, and so on, - in essence, an improved image for Lower Hutt.

Reconstruction an Historic Garden - A Case Study.

In this address Frank Boffa gave an interesting insight into the restoration of an historic garden. He started with the purchase by the Wellington City Council of what

was to become the Sir Truby King Park, and went on to describe the commissioning of a management plan, and the tracing of the origins of the garden.

The only information available was a plan showing the parcels of land that make up the site of Sir Truby King's garden, and what was existing on the site. There were some photos in the Alexander Turnbull Library, and some references in a book by Truby King's daughter. Fortunately Truby King kept extensive records of plants ordered in New Zealand and overseas. So from these challenging beginnings Frank started to piece together what the garden would have looked like. Now an inventory exists with plants and hard landscape features documented, along with their condition and work needed. From this a plan for planting and hard landscape work will be implemented over 5 years.

It has been suggested that the Park become a satellite of the Botanic Garden, and a place for a rhododendron collection in keeping with the period when the garden was first established.

Extracts from Wellington Newsletter June 1993.



Waikato Horticultural Society

Affiliated to the Royal NZ Institute of Horticulture (Inc.)

Meetings are held on the 4th Thursday of each month in the Chartwell Square Room at the Hamilton Gardens Complex in Cobham Drive, commencing at 7.30 pm.

- July 22 Some light on Bulbs
Terry Hatch, plantsman & nurseryman from Joy Plants, Pukekohe
- Aug 26 Plant Collecting in China
Lynn Bublitz, Executive Chairman of Pukeiti Rhododendron Trust.
- Sep 23 New Plants from the Jury Stable
Mark Jury, plantsman and plant breeder.
- Oct 28 The Delights of Old Roses
Wendy & Dudley Johnston Proprietors of Trevor Griffiths Old Roses, Drury.
- Nov 25 'Odd Bods' in Horticulture -
Ellaby Martin, owner of Martin's Nursery, Hamilton.

Riwaka Bred Hops - Success for New Zealand Industry

New Zealand is well known for its award winning beers but few people realise that we also export hops. In fact it is a crop with big potential.

Hops have been grown in the Nelson area for more than 100 years. For the past 40 years HortResearch (previously the DSIR) has played an important role in the success of the industry.

The hops being grown in the 1940s were of American origin, they yielded well but were susceptible to a fungal root-rot disease caused by *Phytophthora citricola*. In 1949 the DSIR based at Riwaka set about producing root-rot resistant, high yielding hop cultivars.

Ten new cultivars have been developed since 1960, and the N.Z. hop industry now totally relies on five of these cultivars. The two main domestic breweries, DB and Lion, have both won prestigious international brewing competition awards with beers brewed using only these hops cultivars.

HortResearch scientists at the Riwaka Research Centre have now pioneered the development of naturally seedless hops called triploids. Seeds create impurities in the brewing process, and can be a real problem. In Germany they don't grow naturally seedless types. Instead there are laws against growing male hops so as to prevent the accidental pollination and formation of seeds in the hops.

Riwaka's triploids are later maturing and need a longer season than other hops but are all well suited to New Zealand's mild autumn conditions when harvesting takes place.

Two types of hops can be used in brewing; high-alpha-acid hops which provide the bitter flavour of the beer, and low-alpha-acid, aroma-type hops which are added later in the brewing process mainly for their 'hoppy' essence character.

HortResearch is currently developing three new cultivars. One, a late maturing high-alpha-acid type, will help growers by spreading the harvest season. At present this cultivar is being tested

in brewing trials in New Zealand.

Researchers have also developed a dual purpose high-alpha-acid/aroma-type hop which is due for release next year. It is expected to be particularly popular with overseas breweries who buy hops from New Zealand.

The third cultivar under trial is also aimed at the export market. It is an aroma-type hop rather like a German Hallertauer cultivar but it has been converted to a triploid so has the advantage of being seedless. Under New Zealand growing conditions this new aroma-type triploid has a better yield potential than Hallertauer.

Seventy percent of New Zealand's hop production is currently exported, but as this only represents less than 0.5% of world hop production, the industry definitely has the potential to expand. The fact that New Zealand hops are grown in a relatively pest and disease free environment will greatly boost the industry's opportunities to export.

The only significant pest which attacks Nelson hops is the two-spotted mite. Growers may have to spray for it only once or twice during the season, but as researchers are currently developing non-chemical ways of controlling the mites, eventually even this may not be necessary. In most Northern Hemisphere hop growing countries, aphids and fungal diseases cause major problems, and hop growers have to spray 10-20 times during the season and in some of these traditional hop growing countries environmental pollution is now also creating problems.

HortResearch's hop breeding programme is well supported by the hop and brewing industries who contribute to the cost of the research by way of a levy.

For further information please contact:

Dr. Ron Beatson,
HortResearch Centre, R.D.3,
Motueka,
Tel: 0-3-528 9106
Fax: 0-3-528 7813



Notable & Historic Trees



Notable Trees in the Limelight

by Amanda Watson

When Errol Allison bought his Main Road property four years ago he had no idea the impressive trees flanking the driveway were notable.

He was therefore somewhat surprised when Invercargill arborist David Baird arrived last year to survey them.

The monkey puzzle trees were among four Southland trees awarded the notable status by the Royal New Zealand Institute of Horticulture recently.

The trees, officially known as *Araucaria araucana*, originated in South America and, according to

particularly good example of their type, as well as being a matched pair, with the female to the left of the driveway and the male to the right.

The trees were planted back in 1915 by a Mr. McCartney.

At the time the land was owned by Mr. Faulkner, a real estate agent of the day.

Speculation has it that Railways originally intended building a loop line taking in Ohai, Tuatapere, Riverton and returning to Gore and the monkey puzzle trees were planted on what was picked to be prime land.

However, what could have been a killing in real estate terms was lost when the plan was scrapped after a post-war decision that the future of transport lay in trucks rather than trains.

For now the future of the trees is assured. While the present custodian wouldn't like to see them cut down, he also doesn't want to restrict any future owners as to what they can do with the land.

However, he will be making sure any future owners are aware of the trees' history and status.

Another tree to attain notable status was a 100-year-old oak tree situated north of Matura by Boundary Creek.

The tree was considered special because of its age and conformation, as well as for being something of a rarity in Southland.

A gardener and tree doctor by profession, David Baird has been making note of impressive trees on his travels through Southland for the past four years.

Mr. Baird said there was a set format to be followed when a tree was nominated, and the history of the tree, as well as its type and dimensions, was part of the criteria.

Being notable was the easiest way to gain protection for a tree, as all notable trees were recorded in a district plan.

Both the monkey puzzle trees and the oak will be adorned by a special plaque denoting their status.

As Mr. Baird said, this at least protects the trees from being cut down in ignorance. Nobody can say they didn't know.

From Newslink, Gore 28.1.93



Lime Tree Receives Recognition

A lime tree on the corner of Kelvin Street and Victoria Avenue has been awarded notable registration by the Royal New Zealand Institute of Horticulture. Arborist David Baird, of Invercargill, said yesterday the tree was estimated to be between 73 and 79 years old.

It had great form and its location on a busy intersection made it ideal for its notable status.

The notable tree scheme provided an educational role. People passing the tree would now learn its name once the plaque was attached, Mr. Baird said.

While no legislation supports the scheme, the recognition gives the trees some protection.

A notable tree was defined as a tree which either belonged to a rare species, had scientific importance, displayed exceptional beauty or was an outstanding specimen.

The lime tree was almost 24m high. It was 13m across its branches and 3.3m. around the trunk.

Mr. Baird submitted 30 trees last year for notable registration. Four have been accepted to date. Two were private trees in Gore and one a private tree in Invercargill. The other was the lime tree on public land.

A plaque naming the tree was presented to the Invercargill City Council parks and reserves department.

From 'Southland Times' 26.1.93



the book, people either love them or hate them.

However, there's no disagreement that they're better from a distance, being armed with particularly nasty spikes.

Gore District Council parks and recreation superintendent Gordon Bailey said the trees were a

Notable & Historic Trees

continued

To date, more than 1900 trees (comprising 300 registrations) have been established under the R.N.Z.I.H. Notable Trees Scheme.

The *Wellingtonia* (*Sequoiadendron giganteum*) registered in February under No 285 was planted about 1906 in Gore Garden by Gore's first Town Gardener and late Mayor, A.T. Newman.

About 1930 'King Dick's' son T.E.Y. Seddon MP planted in Wadestown, Wellington, the *Magnolia campbellii* (recently registered as No. 286 at the instigation of his daughter Mary Seddon).

A beautifully-formed Blue Gum (*Eucalyptus globulus*), Reg. 287, growing in the northern part of Anderson Park, Invercargill was submitted for registration by David Baird. Within a few months another Invercargill tree was brought to our notice. However, the planting date of this Spreading Elm (*Ulmus glabra* 'Horizontalis') an "important tree in the middle of Queen's Park" could not be ascertained from the Park records - described as 'rather spotty'. Fortunately, we were helped by the Notable Trees Committee's Technical Adviser, Donal Duthie. Donal remembered helping in 1958 to transplant this, then forty-year-old tree, with its massive root ball to its present site under the direction of the then Director of Invercargill Parks (Mr. Ron Petrie).

The approximate age of the *Parrotia persica* at 'Lennel', Invercargill has been deduced thanks to a letter kindly sent to me by Duncan and Davies who first listed this tree in their catalogue of 1941.

Registration No. 288 Monterey Cypress, *Cupressus macrocarpa*: known for over 100 years as the Earp Macrocarpa or the Bucket Tree, this tree was planted c.1860 between the Porirua Stream and the Old Porirua Road. Since about 1879 the tree, growing in what was then called Tawa Flat, was trimmed to the shape of an upturned round bucket. S.W. Burstall mentions the landmark in his N.Z. Forest Mensuration Report No. 20 (unpublished).

After several delays and vicissitudes the great Moreton Bay fig, '*Ficus macrophylla*', at the Pahi waterfront of Kaipara Harbour has been registered as No. 290. "It is one of the ten finest exotics in N.Z." p.40, GREAT TREES OF NEW ZEALAND by Burstall and Sale.

Wulf Watson, Tree Registrar

An Industry Training Organisation for Horticulture

by Rodger McCarthy, Executive Officer, R.N.Z.I.H - May 1993

In 1991 Government announced intentions to revamp the existing qualifications in all areas and to introduce an Industry Training Strategy linked to this restructuring.

An Industry Training Bill was introduced in December 1991 and passed into legislation as the Industry Training Act in July 1992.

In future, all education and training in the horticulture industry will be linked across various areas of provision through nationally recognised units and qualifications, so as to create much clearer and more accessible career paths for workers and learners. The Skill New Zealand programme currently being promoted in the media is evidence of the Government and industry's commitment to this new strategy for life-long education and training.

The N.Z. Horticulture Industry Training Organisation was formed in response to these new directions to provide for the education, training and development needs of all sectors of the horticulture industry including Amenity Horticulture, (parks and gardens), Production Horticulture (fruit, nursery, floriculture, viticulture, vegetable etc.), and Landscape Design and Construction. The new body has been facilitated in its development stages by the Royal NZ Institute of Horticulture (Inc.), the national horticultural organisation with national qualifications previously amongst its responsibilities. NZHITO has now been officially recognised by the Education & Training Support Agency and will continue to be based at RNZIH Headquarters on the Lincoln University campus.

Initially the emphasis will be on the development of new units of learning for horticulture with associated qualification packages, and the operation and promotion of horticulture apprenticeships. The NZHITO is currently preparing in excess of 150 units of learning to add to those generic agriculture / horticulture units of learning already registered in the Framework*. The new Framework

will allow trainees to study units at different levels of the Framework at different times. This greater flexibility will assist both employers and trainees alike. Qualification packages derived from these units are also being formulated at present.

Why does the horticulture industry need an industry training organisation?

The NZHITO Executive Committee comprising representatives of leading horticulture sectors will have administrative and operational responsibilities for apprenticeships, cadetships and other training programmes for the horticulture industry. It will identify the training needs of the horticulture industry, develop arrangements for the delivery of training, monitor the quality of training, set industry skills standards and will facilitate a learning culture in the horticulture industry.

Traditional education and training arrangements in the horticulture industry have been RNZIH National Certificate / Diploma programmes, apprenticeships, cadetships and polytechnic, university diploma and degree programmes. Nationally these programmes have attracted thousands of trainees each year. Government have agreed that funding support for apprentice and cadet training programmes will continue in the short term through industry training organisations but that industry will increasingly take over the funding responsibility of such schemes. Without the co-ordination that an ITO can provide such schemes will founder when central funding support is diminished and withdrawn. Thus the industry will be taking greater responsibility for its training.

For any enquiries please contact: Rodger McCarthy, Executive Officer, NZ Horticulture Industry Training Organisation, P.O. Box 12, Lincoln University, Canterbury.

* Framework is the term used by NZ Qualifications Authority for the new unit based qualifications system being progressively introduced.

International Conference on Agrotechnology in the Commonwealth:

Focus for the 21st Century

24-26 May 1994 at the National
University of Singapore

Organised by The Singapore
Institute of Biology

Co-organisers

Commonwealth Association of
Scientific and Agricultural Societies
Nanyang Technological University
National University of Singapore
Ngee Ann Polytechnic
Primary Production Department
Singapore National Academy of
Sciences
Singapore Polytechnic

Objectives

1 To bring together
researchers and practitioners in
the various fields of food production
and related sciences to share their
latest findings.

2 To highlight the importance
of biotechnology and other
technologies in improving the
productivity of agricultural
pursuits.

3 To provide a platform for
international linkages and
collaborations to be initiated and
established.

Language

The official language of the
conference is English

Registration Fee

Before 31 Dec. 1993 - SIN\$500.00

After 1 Jan. 1994 - SIN\$600.00

Accompanying Person - SIN\$300.00

The registration fee covers all
conference documents, proceedings,
lunches, teas and a
conference banquet. For
accompanying persons, the
registration fee entitles them to
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banquet.

All correspondence should be
addressed to:

Dr. Hedy Goh, Secretariat,
Agrotechnology in the
Commonwealth: Focus for the 21st
Century

C/- Department of Biotechnology,
Ngee Ann Polytechnic
535 Clementi Road, Singapore
2159.

Narcissus Fly

by Des Riach

It is sometimes not recognised that there are two major flies attacking narcissus in New Zealand. In addition to narcissus, both attack a wide range of genera in the Amaryllidaceae family, e.g. *Galanthus*, *Cyrthanthus*, *Zephyranthus*, *Lycoris*, *Sprekelia*, etc. By far the most destructive in our area is *Merodon equestris* (the greater narcissus fly), only once have I seen the lesser fly *Eumerus strigatus*, the maggots of this fly were found in bulbs of *Lycoris radiata* sent to me from a friend in the North Island.

There are considerable differences in size, shape and general appearance between the two flies, in addition to their flight patterns and even the sound of their flight. Also it is uncommon to find more than one maggot per bulb of the greater fly, however, there are times when 20 or more maggots of the lesser fly will be found in a single bulb.

The remarks following, whilst directed to the control of the greater fly, will be found equally effective against the lesser.

There are a number of practices one may adopt to lessen the attacks, since the fly is most active on the warmest days and in the warmest part of the garden one may:

1. plant bulbs in the coolest part of the garden, preferably in part shade

2. remove foliage as soon as possible after it dies down and keep the soil loose and cultivated to minimise access down soil cracks to the bulbs by newly hatched maggots.

3. bulbs may be "over planted" with light ground covers, e.g. *Thymus*, *Frankenia*, etc. These plants allow new bulb shoots to pass through in spring but their growth makes it more difficult for the female flies to accurately place their eggs.

Direct, and very effective methods of dealing with the maggots are by the use of the chemicals Thimet and Lawnguard grass grub prills. The former material is the more effective but is a most unpleasant, if not downright dangerous chemical to use. I believe this material is to be phased out over the next three years, giving manufacturers the opportunity to produce a less environmentally damaging chemical.

I have used Thimet in the following way with great success, particularly with pot grown bulbs, simply by sprinkling the green or grey granules evenly over the soil surface approximately an inch below the rim of the pot and then topping off with more soil to approximately a quarter of an inch below the rim.

Most of my bulbs are potted by the end of March, the fly is not on the wing in Christchurch much before October so that the months between March and October give the Thimet time to dissolve in the soil and to be taken up into the sap stream of the growing bulb. Thimet is a systemic, hence I've found only one application gives protection over the whole growing season. For bulbs growing in the garden I first scrape away a coup of inches of soil above the bulbs well before they are due to appear above ground, sprinkle evenly over the lowered soil surface, then replace with removed soil.

With Lawnguard prills the killing agent is Diazinon. This material is much easier, pleasanter and less dangerous to apply. The prills may be simply sprinkled evenly over the surface of either pot or open ground bulbs but must be thoroughly watered in. Control is good, particularly in pots.

I have had no success with other methods of suggested control, e.g. Jeyes Fluid, garlic, rhubarb concoctions.

Because, as mentioned earlier, the flies attack other genera in the Amaryllidaceae where bulbs of *Galanthus*, *Zephyranthus*, *Habranthus*, etc., etc., are grown these should also be treated.



R.N.Z.I.H. Branch Personnel

AUCKLAND

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7 Ferner Ave, Mt. Albert, AUCKLAND
Ph.815 4234 or 8468 961
Secretary: Mr Roger Price,
133 Luke Road Otahuhu.
Ph 276 4907

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Chairman: Mrs A. Fullerton, "Mill Ridge", Mill Road, R.D. 3, OHAUPO.
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CHRISTCHURCH5
Ph.358 8914

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PO Box 8032, DUNEDIN.
Ph. 455 7751

N.Z. Nurserymen's Association Coming Events

Hardware & Gardenware Trade Show 27 July, Melbourne ph. Aust 3 629 4100

NZNA Auckland Speaker Evening 17 Aug. ph. 09 416 8482

Jarditec 19-23 Sept. Paris North ph. Fr 71 221 3660

NZNA Conference 1994 14-16 March, New Plymouth

Florifacts

From, HortResearch Science Focus, Issue No. 1 1993

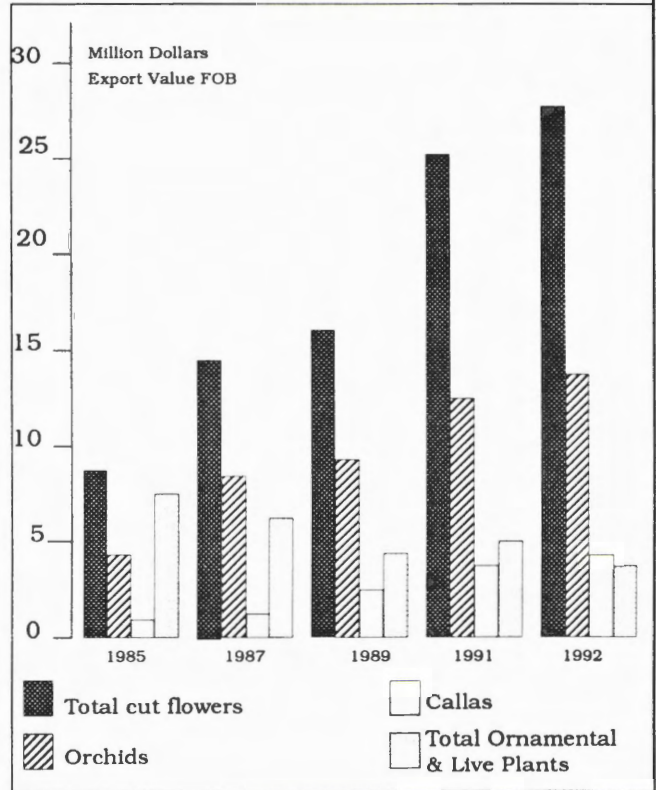
New Zealand's major cutflower exports have grown spectacularly from a total of \$7.6 million in 1985 to \$27.8 million in 1992.

Orchids still lead the way but calla exports were up from \$0.4 million in 1987 to \$3.6 million in 1992 - an average growth of 175 percent per annum over the last five years.

The value of ornamentals and live plant exports in 1992 was \$3.5 million - up 35 percent in 1990, and a per annum export growth rate of 15 per cent is anticipated.

The overall growth of 'other' nursery exports - seeds, bulbs, tubers, corms and foliage - has also been rapid. Their total export value was \$11.7 million in 1992. A major growth area within this total was tuber, bulb and corm export earnings - up over 700 percent since 1985.

The total of all nursery exports in 1992 was \$43.0 million - up 64.1 percent over 1990 (\$26.2 million).



Domestic sales are also a significant part of the industry. In 1991 domestic cut flower retail sales reached \$24 million, while the sale of ornamentals reached \$180 million.

R.N.Z.I.H. National Executive Nominations

The Executive shall consist of nine Members duly nominated and elected at the Annual General Meeting for a term on three years. Election to the Executive shall be carried out by means of a postal vote by members.

(i) A person standing for election to the Executive must be proposed and seconded by members of the Institute. Such nominations must be signed by the person proposed signifying the nominee's eligibility for and acceptance of nomination and his or her willingness to serve on the Executive for a period of three years.

(ii) All nominations for the Executive shall be in the hands of the Executive Officer two calendar months before the date of the Annual General Meeting of Members, i.e. by **31 July** in this case.

(iii) All nominations for the Executive shall be circulated to all members of the Institute at least thirty days prior to the date of the Annual General Meeting of members at which the election is to take place.

(iv) Usually three Executive Members retire from office by rotation each year. In 1993 only two such vacancies will occur. Retiring Executive Members shall be eligible for re-election. (Mr. David Shillito and Mr. Mike Oates are due to retire from office this year.)

Plants from Here and There

Royal New Zealand Institute of Horticulture & New Zealand Arboricultural Association

ANNUAL CONFERENCE

October 14-18, 1993 at Larnach Castle, Otago Peninsula Dunedin

REGISTRATION FORM

Name Telephone Number

Address

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\$50 per person If attending the Annual Dinner, please state number of places required

No. attending

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Larnach Castle Lodge - all bookings via Conference Secretariat

We have reserved all of the accommodation at the Castle. Prices are given per person and rates are on a share room basis. All bookings on a 'first come, first served basis'. The conference secretariat will arrange the room planning. If you require accommodation for you and your partner, please tick box.

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TOTAL	\$ <input type="text"/>

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