

MAMMILLARIA THORNERI

Espinas y Flores

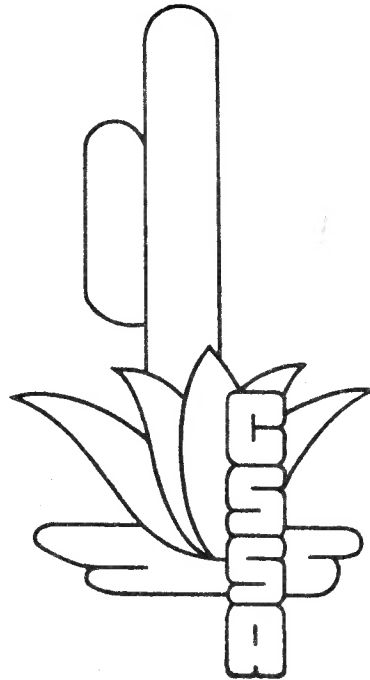
BULLETIN OF THE SAN DIEGO CACTUS AND SUCCULENT SOCIETY
Affiliate of the Cactus and Succulent Society of America, Inc.

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Program

THE CACTUS AND SUCCULENT SOCIETY
OF AMERICA, INC.



1975 Convention

SAN DIEGO, CALIFORNIA

May 12th - 16th, 1975

CACTUS LAND

Welcome to the
Sixteenth Biennial Convention of the
CACTUS AND SUCCULENT SOCIETY OF AMERICA, INC.

The Bahia

San Diego, California

PRESIDENT'S MESSAGE

It becomes my very pleasant duty to welcome you, in the name of the San Diego Cactus and Succulent Society, to the 16th Biennial Convention of the Cactus and Succulent Society of America and to our fair city of San Diego.

This convention is the result of a new approach, tried for the first time: CSSA left all planning and arrangements to the host society. We feel this is an excellent incentive for local members to become more actively involved with our national organization. Preparations for this convention have been an educational experience of great value to the local society, being the first to accomplish this task. We are fortunate, indeed, to have so many talented and willing workers in our group who have given unselfishly of their time.

I can assure you we have all thoroughly enjoyed the planning phase, the labors of stage setting and are now looking forward to reap the harvest; a successful convention, I am certain it will be.

On the behalf of CSSA I would like to thank all those who have worked so diligently and untiringly on the project to make it an outstanding event.

Again, welcome to the convention. Should you have any difficulties or questions, please feel free to contact me or any of the San Diego members. We will be more than happy to help make your conventioning a pleasant and unforgettable experience.

Martin Mooney
President
SDCSS

PROGRAM

SUNDAY, MAY 11:

Noon to 5:00 p.m. Early registration. La Jolla Room.

Noon to 6:00 p.m. Visits to local cacti and succulent gardens.

8:00 p.m. "Time Lapse Photography", Narration and Photography by Donald L. Kruzner, retired Superintendent of Schools, King County, State of Washington. Dr. Kruzner has captured the colorful spectacle of the desert cacti in blossom on film and will then take you on a guided tour watching our very own Bob Taylor demonstrate his skill in grafting and hybridization.

MONDAY, MAY 12:

10:00 a.m. Registration all day.

10:00 a.m. Preliminary meeting of Delegates

Plant exhibits are on view. Get acquainted with each other over coffee, punch, tea and cookies, compliment of the house.

1:30 p.m. "The Man-Agave Symbiosis", by Howard Scott Gentry of the Desert Botanical Garden, Phoenix, Arizona. Mr. Gentry has long been the foremost student of the agave family and is the author of "Rio Mayo Plants", a classic study of the flora of southern Sonora and northern Sinaloa, and "The Agave Family in Sonora", published during his years with the Agricultural Research Service of the U.S.D.A. He is currently working on a monographic study of the family at the Desert Botanical Garden and is a newly elected Fellow of the CSSA.

2:15 p.m. "The Fly Bordello" by Marlene Rainman, who is one of the founders of the Sunset Succulent Society of Santa Monica and operates the only succulent nursery in the Mendocino-Lake Counties. Of European descent, Marlene Rainman has lived in California for the past thirty five years and is an authority on Euphorbias, Asclepiads and Cauduciforms, collected, fairly widely, throughout Mexico and Baja, California. She is also a semi-retired free-lance translator specializing in the sciences with an extensive correspondence.

3:00 p.m. "Charles Lemaire and the Rarest Cactus Book", by Larry W. Mitich, who serves as Extension Agronomist at the North Dakota State University and whose vocation is weed science. Dr. Mitich obtained his M.S. and Ph.D. degrees at the University of Wyoming. He spent four and a half years teaching agronomy at the University of Kabul, Afghanistan, from 1955 to 1959. Dr. Mitich became interested in cacti and succulents as a youngster. He has collected literature in all languages on the subject and has established his own extensive library.

3:45 p.m. "Cacti and Other Succulents That Like it Wet and Cold", by Louise Lippold, the Curator of cacti and succulents at Planting Fields Arboretum, Oyster Bay, Long Island, N. Y., since 1968, where she established and maintains a two part collection: African Succulents, and the cacti and succulents of North and South America. Louise Lippold teaches at P.F.A. in spring and fall education programs, offering comprehensive courses on cacti and succulents,

including culture and propagation. She has a large private collection of succulents from field trips to the Southwest and Mexico as well as many of the rarer African succulents.

6:30 P.M. Banquet, sponsored by the Imperial, Palomar and San Diego Cactus and Succulent Societies.

8:00 p.m. "Some Interesting Indigenous Succulents of South West Africa and Angola", by Dr. Philip E. Downs, a dental surgeon by profession and a botanist by intent. He holds a Diploma of Merit from the National Cactus and Succulent Society for services rendered, especially as Chairman of the Sheffield (England) branch, 1963-1967. He emigrated to South Africa in 1967 and presently lives in Durban. He is the author of short articles appearing in journals of the CSSA, South African Aloe and Succulent Society, Rhodesian Aloe Society, Mammillaria Society, etc. Dr. Downs has made several trips to Angola, South West Africa, Mozambique, Rhodesia, Swaziland and Malawi for the purpose of collecting, studying and photographing indigenous succulents of Southern Africa.

TUESDAY, MAY 13:

8:00 a.m. All day tour of North County nurseries, Palomar Cacti Garden and Quail Botanic Gardens, with Palomar Society members acting as guides and hosts.

QUAIL BOTANIC GARDENS - San Diego County Regional Park
by Betty Woolrich

Quail Gardens County Park is located in Encinitas. The mild coastal climate in this area is ideal for the luxuriant growth of a great range of rare and beautiful plants. Within the park, areas of chaparral provide a natural refuge for birds and small animals. The surrounding area is heavily engaged in flower production.

In 1957, Mrs. Ruth Baird Larabee donated 26 acres of El Rancho de las Flores to San Diego County for park purposes. This parcel included a ranch house, many plants, shrubs and trees, both native and exotic. In 1971, San Diego County Regional Parks Implementation Study proposed the acquisition and development of an additional thirty five acres by 1980. In 1972, Paul Ecke, Sr., and Magdalena Ecke gave five acres to the south, including the existing Community Center building.

Because of its topography and its relation to the Pacific Ocean, Quail Gardens includes varied microclimates and soil structures, establishing conditions favorable to a variety of plant communities. These include an arid zone with good drainage which will include South African, Central American, Australian and New Zealand plant communities.

A sub-tropical zone on high ground affords protection to sub-tropical plants from extreme cold. A Palm Canyon area on the leeward slope, sheltered by large trees and dense foliage, provides a tropical zone. Undisturbed native chaparral areas provide a natural habitat for small animals and the quail from which the garden derives its name.

Quail Gardens Foundation, Inc., a non-profit organization, separate from the

County, has a membership who volunteer their aid toward furthering the development of Quail Gardens as a place of beauty, education and enjoyment. Objectives of the Foundation include: A County Horticultural Center emphasizing sub-tropicals, succulents and native plants for beauty and potential commercial value; a center of scientific study for the introduction of new plants; an education program of horticulture and nature study; a building to be used as a meeting place, library, herbarium and information center; other necessary structures such as a shade house and a hot house and a sanctuary and feeding station for quail and other native birds.

In 1974, this Foundation asked the Palomar Cactus and Succulent Society to make recommendations and submit design drawings for improving the visual appearance and upgrading the plant specimens in the cactus and succulent areas. The major and primary problem revolved around soil improvement which was desperately needed.

On the recommendation of the Palomar Club's Landscape Committee, Mrs. Mildred Gregory, Mrs. Helen Hegyi and Mrs. Betty Woolrich, two areas adjacent to the parking lot were tackled first and almost totally revised, leaving only the most massive plantings. All other plants were removed, the soil renovated to give some growing depth. The slopes were then contoured to present a more interesting and natural aspect. Informal walks were provided to allow closer viewing of plants. Quail Gardens Foundation, Inc., has allotted \$1,000.00 for the purchase of new plants and other materials. Several individuals have donated large specimen plants which have been the basis for a decorative and educational planting. The Palomar Club acts as a consultant on all design changes and plant purchases.

Within the above areas one section is devoted to Western Hemisphere plants, ranging from cactus and succulent plants of the Baja, California peninsula and islands, to sub-tropical material and South American species. Plants have been grouped as much as possible to provide educational examples of plant adaptation and family groupings as well as to present a pleasing picture to the casual viewer.

An adjacent area, having basic plantings of massive euphorbias, has been redesigned with meandering paths and rockwork to show to advantage the succulent material of the Old World. Plans call for the future addition of varieties to an already extensive planting of agaves, and a more definitive display of aloes. The changes that have occurred in the past six months, under the supervision of Park Ranger P. J. Miller and the plantsmanship of Gilbert Voss, is nothing short of phenomenal.

Although C&SS is basically involved in cactus and succulents, there are several areas in this garden that any plantsman would find interesting. These areas include a large bromeliad planting, an extensive group of the fascinating proteas, as well as palms, ferns and native plants. Self-guiding tour brochures are available to enrich time spent in this small but diversified botanical garden.

PALOMAR CACTUS AND SUCCULENT SOCIETY'S OWN GARDEN
by Betty Wollrich

The Society members maintain and constantly enlarge a cactus and succulent garden on two to three acres at the southeast corner of the Palomar Junior College campus. This garden has been developed by the club over the past ten years. Land, rocks and water are provided by the college. Plants, sweat and calluses are provided by club members under the guidance of Mrs. Mildred Gregory. Plant material has all been donated and, in general, is segregated into families.

Entering the garden, one first sees a large Agave americana in bloom. A curving path to the right, flanked by agaves, yuccas and small cacti, foots a slope covered with columnar cacti, Cereus, Crested Peruvianus, Lobivias, an assortment of barrels, tall yuccas, with soft plantings of various succulents underneath, presently lead to a bed of massed opuntias of some size. In this group there is a large Opuntia pycnantha from Santa Margarita Island of Baja, California.

There is a bed devoted to native plant materials: yuccas, dudleyas, Ferocactus veridescens, Mammillaria dioica, and others. Another bed groups mammillarias. Shaded by a male Beaucarnea, acacia and bursera, one finds large compressas and many interesting and well developed mammillarias tucked into a very rocky slope. Across from the mammillarias is a section devoted primarily to plants from Baja, California. Here is a female Beaucarnea, Idria, Dudleya anthonii.

Proceeding deeper into the garden, one finds a higher slope planted with agaves. Many of these represent a large collection given by Dr. Gentry. Specimens from Baja, California and coastal islands were collected by C. R. Harbison. Agave ocahui from Sonora and Agave promentorii from La Paz have interesting forms. Agave vilmoriana is in bloom. Many of the paths are lines with the local dudleyas. Above this bed a windbreak of Rock Roses has been planted.

An extensive planting of euphorbias features a Pedalanthus bracteosa, several Euphorbia mauretana showing crests, Euphorbia zantii which, in bloom is a cloud of pink blossoms. Many stapelias and related plants seem to like this area particularly well, although we have a continuing problem with frost, protective barriers are being developed. A recent onslaught of an agave beetle has hit hard the agaves and some yuccas. There is the ever present problem of ground squirrels and rabbits which keep some succulent material drastically pruned. We recently lost a ten foot yucca which had been thoroughly gnawed from root to flower.

Returning to the garden entrance, one finds the aloes: Aloe bainsii, Aloe dichotoma and many small forms. Under the trees the Gasteria are blooming. Towards the entrance outcropping of rocks provides an R & R area where even a crested Bergerocactus is thriving on its own roots.

This garden is used extensively by the college classes in photography, as well as botany and various other college students. It provides the specimen plants that have made the club's landscape gardens at the Del Mar Fair, blue ribbon winners for many years. An effort has been made to keep this garden pleasing to the eye rather than as a strictly botanical display. This is done in an effort to illustrate the possible uses of succulents in home landscaping.

GRIGSBY CACTUS GARDENS
by Madelyn Lee

Early on a spring morning heavy fog fills the little valley. It is as if the house on the hillside were suspended in the soft, opaque material. A few feet away on a miniature mountain the large Myrtillocactus cochal cascades down the bank by the big cycad and across the path from the multi-armed Espostoa lanata, a bed of large, mature Ferocactus nestle by the bank. You can almost see the Aloe bainesii tree, but the rest of the world is a soft, shifting, gray blanket.

The morning breeze comes up and, as the early light begins to sift through, you become aware of silent shapes standing lower on the hill. Slowly, very slowly the groups of tall Pilosocereus, Lemaireocereus, Weberbauerocereus and Carnegiea gigantea begin to appear, suspended in the shifting mists. They are soon joined by a stand of Thrixanthocereus blossfeldiorum and the beds of Denmoza, Cissus juttae and Aloe. The huge Echinocactus grusonii nestle at their feet and shine golden in the early morning sun. Day has begun at Grigsby Cactus Gardens.

The Grigsbys' specialize in specimen plants. A "specimen" plant is sometimes hard to describe. It can be a one inch Frailea or a twelve foot, twelve armed



Dave and Irene Grigsby
and "Tigger"

cleistocactus, or an eighteen inch, 200 pound Echinocactus. The term usually means a mature, flowering plant without deforming scars or broken spines. It takes patience, knowledge, care and love to produce a "specimen" and the necessities are abundant at Grigsbys.

When plants in the 140' by 18' greenhouse reach about two inches in diameter they are planted out in one of the fourteen planting beds which stair-step down the hillside. The terraces range in size from 50 to 150 feet long and 12 to 20 feet wide. Red, yellow, white, black and tan spines, of many species, form large patches of color as you look over the fields.

It is quite an experience to wander through forests of 8 to 12 foot Pilosocereus, Neobuxbaumia, Lemaireocereus and Cleistocactus or walk through beds of 3 to 5 foot Espostoa, Oreocereus and Beaucarnea plants. One to three foot Cephalocereus senilis vie for attention with dinner plate sized plants of Mammillaria gigantea and mounds of Mammillaria compressa and Mammillaria geminispina. It is a fantastic world you read about but never expect to see.

Dave Grigsby is a collector before he is a nurseryman. He is interested in all plants but the succulents are his love. His private collection is kept in two fifty foot "goodie" houses along with other rare succulent plants. It consists of many species, but the South American globular cacti, crassulas and the succulent euphorbias hold his special interest. He shares a collector's exasperation in not obtaining a particular plant and our excitement when a long awaited import roots or a seed sprouts.

Like the rest of us he never has enough room and another greenhouse is under construction for his favorite specimens.

Dave and Irene Grigsby have shared many interests in their 25 years of marriage. They have raised four children, run a successful rock and mineral business (Dave has a degree in Geology), raised camellias, tinkered with electronics, bird-watched and done a little oil painting. They are both devoted to and active in their church.

The reason for their introduction and subsequent addiction to the succulent world was a large hill of unwanted dirt left over from an addition to their home in Berkeley, California. It was too big to move, so it was hidden under rocks and alpine plants. Then in 1957 Dave's mother gave him a cutting from a large Cereus in her yard. The alpines thrived and the cereus sat there.

A short time later Dave's employer, Ultraviolet Products, transferred him to San Gabriel, California as their Scientific Products Manager. The move was successful for everything but the alpines; they promptly died.

The cereus grew and flourished but looked lonely, so more cacti were sought. For some reason the space left by removing the front lawn and the cuttings obtained from generous collectors never came out even, so the phone book was consulted for a larger selection and supply. Once Johnson's Cactus Garden and Dave Grigsby found each other the outcome was inevitable; he ran out of lawn.

Johnson's led to the Cactus & Succulent Journal and the Los Angeles Cactus and Succulent Society. Books were purchased and studied and fellow cactus collectors were found. The one lonely cereus was now a consuming hobby.

The back yard was now under attack. A lath house was built and then a greenhouse. Plants were propagated and seed was raised. Finally a 25 x 25 foot covered area was built. By 1962 he finally ran out of room, period! More land was needed.

Many locations were investigated but the beauty, moderate climate and peacefulness of Vista, California made it an ideal place to "retire to" some day. Incidentally, Vista is also the best place in the U. S. to grow cacti.

The property was purchased in July of 1962. It was partly terraced and, except for weeds, contained a Pereskia, an Aloe bainesii and some avocado and eucalyptus trees.

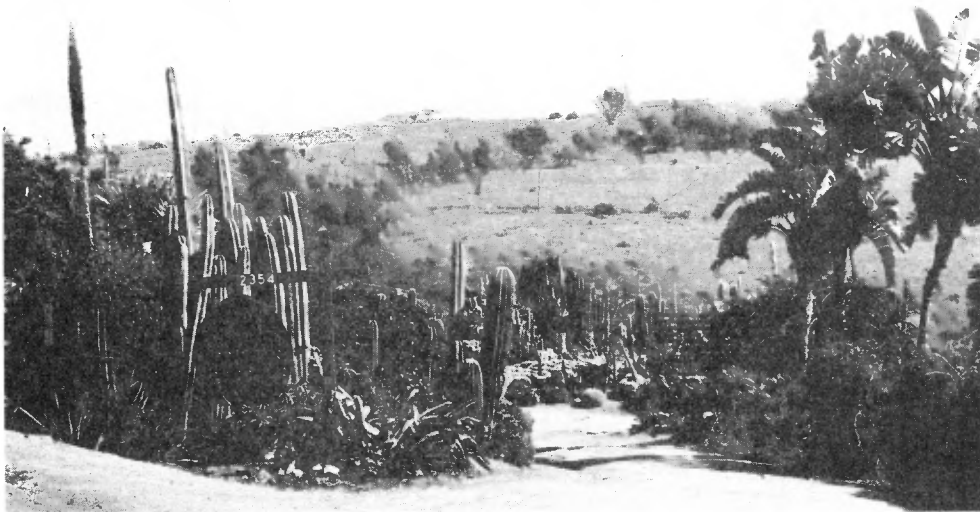
Dave, Irene, two boys, two cats and a dog would drive the 100 miles to Vista in a Volkswagon pick-up truck every weekend, holiday and vacation from 1962 to 1969. Until 1967 when Irene designed her "climate controlled" house, a large avocado

tree was their kitchen and living room and they slept on the truck and in tents.

Finally the stubborn adobe clay was terraced and planting beds of horse manure and decomposed granite were prepared. Fruit trees were planted and the excess plants were moved from San Gabriel. They began selling plants in 1969 and, as the little business didn't stay little very long, decided to "retire" fifteen years early and move to Vista.

Today about 1,000 species are under cultivation. The business is mostly wholesale to large nurseries throughout the U. S., but the nursery is open to collectors on Thursday, Friday and Saturday and a catalog is available to retail mail-order customers.

Dave Grigsby is on the Board of Directors of the C.S.S.A., gives informative programs and is a member of several local clubs and growers organizations. He is still a collector at heart and remembers with fondness the day he planted the seed for the twelve foot Dracaena draco and the beds of flowering Oreocereus celsianus and the 16 inch Echinocactus grusonii. His one lonely cactus cutting isn't lonely any more.



The entrance to the Grigsby Cactus Gardens

HANS BRITSCH NURSERY
by George E. Radwin

Most cactus nurseries are founded with the avowed purpose of selling specimen quality plants to enthusiasts. Hans Britsch's nursery is an exception to that rule. In 1965 Hans emigrated from his native Switzerland, where he had pursued a university course of study in agronomy (the science of growing plants or crops). He settled in Vista, in northern San Diego County, with its near ideal plant-growing climate, and proceeded to develop, through hard work, what has

become a successful wholesale cactus and succulent business in which his main stock-in-trade is the supplying of retail outlets with small potted seedling cacti and succulent cuttings.

In his earlier years in the business he listed his full address on the plastic stakes in his little pots. In this way Tony D'Attilio, known to many Southern California succulent plant enthusiasts, was able to locate Hans in Vista and, in time, to share his discovery with myself and L. J. Bibbey, his two cactus loving friends. We trekked, three musketeer-like to Hans's Vista "digs" several times and began to hear from him about his new "Escondido location" to which he had moved so many of his more exotic and larger plants.

After cajoling an invitation to Escondido from Hans we planned a "sortie", but frankly didn't know what to expect. Travelling the winding road north of Escondido we began to fear that we had taken a wrong turn and were moving further and further into the "boondocks", until, right there on the right, just a short distance from the road was a huge, plastic covered greenhouse complex covering some 40,000 square feet. We drove up the dirt road, parked, located Hans, made some small talk, and edged eagerly toward the open doors of the huge multigabled greenhouse. The next few minutes found us babbling somewhat incoherently at the profusion, size, and beauty of the specimen plants to be seen.

In the European manner Hans has constructed his beds at ground level, and there were several little known species of *Notocactus*, *Pilosocereus* and *Melocactus* and other less well known genera in large numbers and in sizes exceeding those normally attained by those species in nature.

I'm afraid Hans must have thought we were just a wee bit eccentric (aren't all cactophiles also cacto-nuts) but he gradually accepted the intensity of our enthusiasm and has permitted us to visit on other occasions in spite of our eccentricity.

It goes almost without saying to those who have visited the Hans Britsch Nursery in Escondido that his plants are carefully chosen for their beauty and interest. It is also a fact, as even competitors have conceded, that few cactus plants, grown anywhere, have the size and the robust root system, an important factor in plant health and beauty, that Britsch-grown plants have. I have a fair number of his plants and cannot remember losing one to rot or other disease.

It is reassuring to recognize that even though he is a successful businessman, Hans Britsch has a true love for beautiful and exotic plants.

INDIAN ROCK GREENHOUSES
by C. Glass & R. Foster

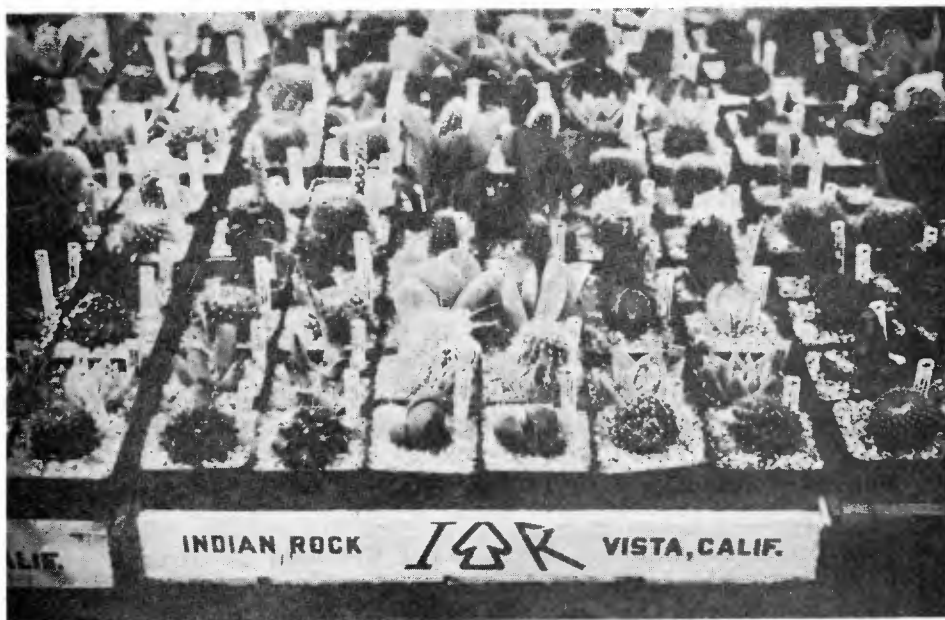
Cactus is big business at 629 Cortez Avenue in Vista, California, the address of Indian Rock Greenhouses. In sheer size of the nursery and volume of plants in which it deals, there is little question that Indian Rock is the largest cactus nursery in the United States. The business was started in the 1930's by Jack (Arthur) Merget "Senior", and since 1963, under the highly able direction of his son, Jackie Merget, or "Cactus Jack", the business has continue to grow at a phenomenal rate.



Indian Rock Greenhouses, the largest cactus and succulent nursery in the country, producing 4,000,000 units a year. A fifth of their 25 acres now under production; 60 greenhouses providing 1,000,000 square feet under cover. Photo Seichi Osada.

Indian Rock makes no pretention of dealing in rare collector's items (though you'll occasionally find a few of those in their selections), but in eye-catching, interesting, well-grown cacti and other succulents. Many a collector, particularly in the Southwest, was first introduced to cactus through Indian Rock plants at the garden section of their local super market or department store. But this is not the only way in which Indian Rock has helped the hobby. So great is the demand for Indian Rock plants, that Indian Rock has encouraged many smaller growers to specialize in growing quantities of cacti from seed, and has been able to guarantee sales for these growers during the first few difficult years.

Indian Rock and the Merget family, in particular, can be very proud of the healthy growth of their business, of the unique and very necessary role they fill in the cactus world, and of the high quality of their stock.



A typical Indian Rock assortment of cacti and other succulents

8:00 p.m. "Some Notes on Mammillaria solisii and its close allies" and "The influence of the Mexican American War on the Discovery of Cacti", by Hernando Sanchez Mejorada. Long a student of the cacti of Mexico, Hernando is currently working with Dr. Helia Bravo on the Cactaceae of Mexico, a project sponsored by the Universidad Nacional Autonoma de Mexico. Most recent among his publications is "A Revision of the Genus Peniocereus". Among the plants named in his honor are Thelocactus sanchezmejoradai, Echeveria sanchezmejoradae and E. elegans hernandonis. Mr. Sanchez Mejorada is a member of the I.O.S. and President of Mexican Society of Cactology.

WEDNESDAY, MAY 14:

10:00 a.m. "What can be done to make the I.O.S. more effective". Symposium conducted by Myron Kimmach, Curator of the Huntington Botanic Garden in San Marino, California. Mr. Kimmach was formerly with the Berkeley Botanic Garden and is a Fellow of the CSSA, Junior Past President of the CSSA, a director of I.S.I. and a member of the I.O.S. He has done considerable research with epiphytic cacti and proposed a major revision of the Borzicactinae. He has also done much work with hybridizing succulents and his crassula, "Jade Necklace", is one of the more popular horticultural specimens. Among the plants named for him are Epiphyllum kimmachii and Pachyphytum kimmachii.

11:00 a.m. "Cacti of the Galapagos Islands", by Dr. Edward F. Anderson, professor of Botany, Whitman College, Walla Walla, Washington. Dr. Anderson, a new Fellow of the CSSA and member of the I.O.S., has made extensive studies of the cactaceae of Mexico, Ecuador and the Galapagos Islands. Among his major contributions to the world of succulents are his revisions of the genera Ariocarpus, Lophophora, Pelecypora and Obregonia. He is currently involved with a revision of the genus Thelocactus.

1:30 p.m. "The Great Cactus Boom and Bust", by Dr. Lyman Benson, Professor Emeritus of the Botany Department of Pomona College, Director of the Herbarium, Fellow, Past President and Director of the CSSA and member of the I.O.S. Dr. Benson is the authority on Cactaceae of the United States and Canada, and among his works on the subject are "The Cacti of Arizona", "The Native Cacti of California" and "The Cactaceae of the Flora of Texas". Soon to be published is his monumental work, "The Cactaceae of the United States and Canada".

2:30 p.m. "The Genus Ferocactus", by Dr. George S. Lindsay, Director of the California Academy of Sciences in Golden Gate Park. Dr. Lindsay formerly was director of the San Diego Natural History Museum, and before that helped found the Desert Botanical Garden in Phoenix, Arizona. His doctorate thesis was a monograph of the genus Ferocactus. Other works of his include "The Cacti of San Diego County", a monograph of the genus Cochemia, and descriptions of various new species of cacti, including Mammillaria tegelbergiana, M. boolii, M. louisae, and several others. Among the plants names in his honor are Ferocactus lindsayi, Mammillaria lindsayi, Echeveria lindsayana and X myrtgerocactus lindsayi. Dr. Lindsay is a Fellow of the CSSA and a member of the I.O.S.

3:30 p.m. Business Meeting for I.O.S. Members only. Pacific Room.

3:30 p.m. "Cultural Secrets of Commercial Growers". This program is open to all non-members and will be a symposium with the following experts: David Grigsby of Grigsby Cactus Gardens, Vista, California, well known horticulturist;

Hans Britsch of Western Plant Growers, Inc., Vista, California; Paul Hutchison of Tropic World, Escondido, California, distinguished botanist, lecturer and traveler.

6:30 p.m. Banquet, sponsored by Sacramento and Stockton Cactus and Succulent Societies.

8:00 p.m. "Crassulaceae" by Dr. Reid Moran, Curator of Botany of the San Diego Museum of Natural History. Innumerable expeditions throughout the entire peninsula of Baja, California and adjacent islands have made Dr. Moran one of the most knowledgeable authorities on the subject.

THURSDAY, MAY 15:

8:00 a.m. All day trip to the Anza-Borrego Desert State Park.

ANZA-BORREGO DESERT
by Warren Buckner

An all day bus trip to the Anza-Borrego Desert State Park, with stops at other points of interest, will cover 250 miles, viewing in habitat fifteen native cacti and eight succulent or xerophytic species. Time permitting, the last stop will be at the Julian "Wild Flower Show" where all those flowers that you saw will be identified.

The first stop will be at the Dehesa School in Sweetwater Valley to observe Nolina interrata, Dudleya pulverulenta and Yucca whipplei.

The bus will continue on through the Laguna Mountains, stopping at the Jacumba train depot. Along this route will be many flowering shrubs, trees and spring flowers. We will pass through a part of the big fire area (250,000 acres) of 1970. At Jacumba we will find flowering Echinocereus engelmannii, Opuntia phaeacantha variety discata and Dudleya arizonica.

As the bus descends to near sea level in the Anza-Borrego desert we will stop amongst the huge boulders at Mountain Springs Grade. Here in the rocks, and on the precipitous slopes are Nolina biglovia, Ferocactus acanthodes, Agave deserti, Fouquieria splendens (Ocotillo), Opuntia besillaris and Yucca valida.

As we reach the desert, the bus will leave Interstate 8 at Ocotillo, and enter the state park along the old Imperial Highway, the 1774 route of deAnza, the Mormon battalion in 1846, marching from Council Bluffs, Iowa to San Diego, the Butterfield Stage Route of 1858 and innumerable immigrants to the "gold" country, both mother lode and later Julian strikes. Ocotillo will be blooming everywhere and in the desert washes the smoke trees should be a delicate grey blue and a haze of purple flowers. The silver cholla will dominate the landscape in many areas along with many of the plants observed at Mountain Springs.

Lunch will be at the Vallecito stage station (reconstructed), one of the major stations on the semi-weekly Butterfield service between San Francisco and St. Louis, inaugurated on September 16, 1858. Travel over the Butterfield route

continued until the beginning of the Civil War in 1861, when the southern route was replaced by a more northerly route to avoid the southern secessionists.

The last stop in the desert will be at the historic site "Box Canyon". This is the site of the most crucial part of the Mormon battalion march to San Diego from Iowa. The rocky chasm was too narrow for the five remaining wagons. Having lost their picks, shovels and spades while crossing the Colorado River the men had to hack a passage through the canyon with axes.

The last stop of the day will be in Julian at the wild flower show. To reach Julian we will climb 4,000 feet up the Banner Grade, site of many of the mines of the Gold Rush of 1870. This transition from desert to pines and apple orchards will offer many interesting wild flowers and native chaparral in bloom. Our bus guides will be the very knowledgeable "native plant" man, Mitchell Beauchamp, Gary Lyons from Huntington and our own desert rat "Granny Annie" known to some people at Julianne Rice.

This day long tour planned by "Mitch", will be a convention highlight - don't miss it.

Absolutely no collecting will be permitted on this trip. Bring your field glasses and camera with lots of film.

ALTERNATE TRIPS TO LOCAL POINTS OF INTEREST ON YOUR OWN ARE SUGGESTED TO INCLUDE:

Balboa Park: Museum of Man, Museum of Natural History, Space Theater (Planetarium), San Diego Zoo.

In and around San Diego: Harbor Excursion, Old Town (Bazaar del Mundo); Wild Animal Park in San Pasquale; Pt. Loma Observation Point; Sea World; Scripps Institute of Oceanography.

8:00 p.m. "Succulent Safari to Somalia" by Frank Horwood. A born Londoner, he started collecting cacti as a youngster. Later specializing in Mammillarias, but, having collected some three hundred species, decided only the labels looked different. Moved to Leeds in 1959 and started collecting African succulents, gradually specializing in caudiciforms. He is known in England as T.C.P., "Turnips, Carrots and Parsnips". He has spent two periods of three months in Africa collecting and photographing and has very strong views on conservation, believing that many species of succulents will soon be extinct in habitat.

FRIDAY, MAY 16:

10:00 a.m. Delegates Meeting.

1:30 p.m. "Bonsai for Succulents" by Dr. Leroy N. Phelps, Associate Professor of Microbiology at San Diego State University. His interest in cacti and succulents during the past nine years has led him to become an expert on the subject and he is called upon frequently to advise the San Diego Cactus and Succulent Society. Dr. Phelps has been doing traditional bonsai for many years and some five years ago, while on a specimen collecting trip to Baja and Sonora, decided to try and bonsai some of the local succulents that appear to favor this type of treatment.

2:30 p.m. "Ecological Cactus Culture" by Dr. Gerald K. Arp who is presently involved with botanical projects for the Houston Aerospace Systems Division of Lockheed Electronics Company. Dr. Arp, formerly of Colorado, has worked extensively with cacti of the Southwestern United States and has proposed various revisions, particularly in the genera *Pediocactus* and *Sclerocactus*.

3:30 p.m. "A Walk Through History with Euphorbias" by Madelyn Lee. She is a drop-out from the business world (and a welcome addition to the cactus world!). After 15 years of working as Regional Administration Officer with the Bank of America, "Mad" decided that fun was better than money and her idea of fun is taking care of succulents, day, night, and weekends. She is working full time at Grigsby Cactus Gardens and raises many breathtaking specimens in her own collection. The San Diego Society is most fortunate in being able to borrow her time and services for various functions including the write-up of the succulent of the month.

6:30 p.m. Luau. Friday night break out your grass skirts, lava, lava's, mumu's wild shirts, dancing slippers and appetites. Transportaion to and from the Catamaran Hotel will be via the "Bahia Bell" over the calm waters of Mission Bay. Entertainment will be Dick Kaianua and the "Moanan Revue", four lovely girls from the islands and a virile sword and fire dancer from Morea. After dinner, and the show, dancing will continue until midnight. These four musicians haven't learned a new tune since 1945, so come and dance with your lady. No cavorting around the floor by yourself. ALOHA.

CACTUS & SUCCULENT SOCIETY OF AMERICA, INC.
AND ITS AFFILIATES

Cactus & Succulent Society of California
Cactus & Succulent Society of New Jersey
Cactus & Succulent Society of San Jose
California Cactus Growers
Carmichael Cactus & Succulent Society
Central Arizona Cactus & Succulent Society
Central Oklahoma Cactus & Succulent Society
Colorado Cactophiles
Des Moines Cactus & Succulent Society
Detroit Cactus & Succulent Society
El Paso Cactus & Rock Club
Epiphyllum Society of America
Fargo-Moorhead Cactus & Succulent Society
Fresno Su-Cacti Society
Gates Cactus & Succulent Society
Henry Shaw Cactus Society
Houston Cactus & Succulent Society
Imperial Valley Cactus & Succulent Society
International Succulent Institute
Las Vegas Cactus & Succulent Society
Long Beach Cactus Club
Los Angeles Cactus & Succulent Society
Metropolitan Cactus & Succulent Society
Midwest Cactus & Succulent Society
Mojave Desert Cactus Club
New Mexico Cactus & Succulent Society
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Angie Schiffer