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Editor Assistants

VOLUME VI 1970 No.1



"CACTUS JOHN" HAAG

# ORIGIN OF CACTUS CAPITAL CHATTER

"On the evening of Jan. 8, 1965 the bud burst forth and about Feb. 1st, the blossom opened, revealing the first issue of the Tucson Cactus & Botanical Society's quarterly bulletin, called the CACTUS CAPITAL CHATTER. This is how this name originated. The May-June issue Journal of the Cactus and Succulent Society of America states: "Tucson is the Cactus Capital of the United States. The area about Tucson and thence for many miles is Arizona desert. This is the richest of the cactus deserts in the United States". Hence, Tucson Cactus & Botanical Society thought it most appropriate to entitle their Newsletter-CACTUS CAPITAL CHATTER."

Cactus Capital Chatter, Vol. 1, No. 1, 1965.

THE SPINE, the Official Bulletin of The Cactus & Succulent Society of Australia, has reached the Library of Tucson Cactus & Botanical Society. We think that it is very worthwhile reading for serious-minded kaktophiles. We hope to exchange publications with this Society.-----Editor.

P.G.NICHOLS is a charter member of Tucson Cactus Club. He was a close friend of Cactus John Haag and worked with him in the founding of the Club. One of his favorite plants, a Yucca brevifolia, is blooming this spring. He claims he has waited 11 years to see his Blooming Joshua produce flowers.

# 1970 MATRIARCHY MARKS DECENNIAL OF TUCSON CACTUS & BOTANICAL SOCIETY

Tucson Cactus & Botanical Society was organized ten years ago. The first meeting of the proposed Cactus Club of Tucson was held at 2 P.M., Sunday afternoon, November 13, 1960, at 415 West Giaconda Way in Casas Adobes, home of "Cactus John" Haag——the founder. Before the meeting officially opened, Cactus John presented a brief introduction of the purposes of this proposed club. These were to entail reading sessions, discussion groups, field trips. This club was organized among amateur and advanced cactus hobbyists and collectors, to promote interest in cacti and other succulents, and in other desert plants. In addition, the club would use its influence with local, state, and federal governments to pass necessary legislation for the conservation of native desert plants——wherever they grow.

Alan Blackburn was chairman of this first meeting. Members of the first Board of Directors were; French Anderson, Lester Cole, Mrs. D. S. Herr, Clinton Jarvis, Mrs. W. G. McGinnies, Josephine Shelby, Mrs. Harry Snyder. Founding officers of Tucson Cactus Club were: President- Dr. W.G. McGinnies. Vice President--Alan Blackburn. Treasurer & Public Relations--Cactus John Haaq. Recording Secretary--Mrs. W. T. Dunlap. Corresponding Secretary--Mrs. Howard Chang. At the second meeting on Dec. 11, 1960, French Anderson proposed that the club be named "Tucson Cactus Club". The group approved this name.

The Tucson Cactus Club Roster January 1961, shows the following charter members who have remained active for 10 years: Mr. and Mrs. Alan Blackburn, Mrs. J. A. Almquist, Mrs. Agnes Black, Lura Fuller, William D. Haselton, John Kawchack, Lena Marvin, Dr. and Mrs. W. G. McGinnies, Mr. and Mrs. P. G. Nichols, Josephine Shelby, H. S. Thomas.

ADMINISTRATIVE ROSTER 1970 OF TUCSON CACTUS & BOTANICAL SOCIETY

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1968-1970

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Fuller

HOSPITALITY: Admiral E. R. Halloran, Col. and Mrs. A. D. Chipman.

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CACTUS REFRORESTATION: J. F. Brick, Alan Blackburn, Roger Dean, Alan Mollison.

PUBLICITY: Hugh Dobbins

AFFILIATE DIRECTOR: Rosa Christensen. SPRING CACTUS SHOW: James Robbins

FALL CACTUS SHOW: Betty Blackburn

# PREVIEW OF PROGRAMS FOR 1970

Talks by Charles Tullis, Dr. Stanley Alcorn, Brian Lamb (English author of books on cacti).

Movie on plants by Alan Mollison.

Spring and fall field trips. Seed workshop by Dr. A.J.Deutschman.

Grafting workshop by Alan Blackburn.

Special Events: Enlargement of our cactus show in conjunction with Tucson Men's Club in November, to include competitive classes; also sale of plants. Another cactus show in April in conjunction with Tucson Women's Garden Clubs.

#### OUR LIBRARY

Do you know that Tucson Cactus & Botanical Society has a real and living LIBRARY? It is located at the Nancy Clarke Insurance Agency, 2754 North Campbell Avenue. Do you know that many answers to many of your questions about cacti and other succulents are to be found in YOUR LIBRARY? Do you dare to go there to discover this for yourself?

# A TUCSON CACTUS & BOTANICAL SOCIETY KAKTOPHILE DISCOVERS AUSTRALIA AND NEW ZEALAND

Mrs. Lois Clarke, 1969 secretary of T.C. &B.S., lately enjoyed to the utmost, her 30-day trip through the South Pacific area--Tahiti, Fiji, Australia, and New Zealand. A number of kaktophiles there, with whom Cactus Capital Chatter Editor, Josephine Shelby, carries on a friendly correspondence, extended generous hospitality to our member. Tucson sends them our sincere thanks for their friendly expressions. Gill and Peter Hopkinson of New South Wales, who have enjoyed one winter vacation in Tucson and southern Arizona, welcomed Lois Clarke to Sydney and to Australia, with a bouquet of roses and carnations. They notified their cactus friends in Melbourne who continued this welcoming hospitality--Hon. Secretary: Mrs. D. Bolger; Hon. Editor: Mr. F. Aston, Almong New Zealand Kaktophile friends who entertained Lois Clarke were: Robert Russell, Dominion President of New Zealand Cactus Clubs; Mrs. F. B. Hansen; Mrs. D. Malcolmson; Mr. and Mrs. D. C. McCausland.

# LOOKING AHEAD IN 1970

The March meeting of Tucson Cactus & Botanical Society will be held at Arizona-Sonora Desert Museum. Alan Mollison will show some of his choice movies.

Two field trips are scheduled in April. One will be out-of-state; the short one, nearby. Also in April, T.C.& B.S. will have a Spring Cactus Show in connection with Tucson Women's Garden Club Flower Show.

may 17th at 8 P.M., the T.C.& B.S. meeting will be led by Brian Lamb of England. With his father he publishes books on cacti and succulents, and "The Exotic Collection", monthly notes.

# REQUESTED OF MEMBERS

Any member willing to donate copies of the Cactus & Succulent Journal of America, 1956 to 1964, please tell Librarian John Robbins at once.

Members are asked to take dried and cleaned cholla wood to the home of Nancy Clarke, 3315 Treat Circle. Do this at any time from now on.

Members who have made favors of dried desert materials should let Nancy Clarke know at once. El Paso Cactus & Rock Club has asked T.C. & B.S. to furnish individual favors, table decorations and door prizes for one banquet. This is for the national convention of the Cactus & Succulent Society of America, 1971, El Paso, Texas.

# ENGLISH KAKTOPHILES IN TUCSON

Cactus enthusiasts, Geoff and Betty Hedgecock of England, enjoyed a brief visit in Arizona's CACTUS CAPITAL lately. They were entertained by Nancy Clarke in her home where Dr. A. J. Deutschman joined them for good cactus conversation. Next day, the Hedgecocks visited Arizona-Sonora Desert Museum and Old Tucson movie lot where "High Chaparral" was being filmed--to their delight! In the afternoon, Dr. Deutschman drove them into the desert back country where they became temporarily speechless at the sight of huge Echinocactus horizonthalonius and other species in their native habitate.

AIR POLLUTION in their home area (Manchester-Liverpool) is one of the worst in the world. They claimed that plastic could not be used on greenhouses as the corrosive atmosphere damages it, and the sulphuric acid content is so high that it prevents fungus diseases on the roses there.

## WHEN IS A FOREST?

CACTUS CAPITAL CHATTER editor recently became interested in delving into the semantics of the word "forest" which has been brought prominently to the immediate attention of T.C. & B. S. members by our Cacti Reforestation Project. Our botanically knowledgeable 1969 president, Carl O. Horst, has offered his own opinion that "reforestation" is a term more generally applicable than to trees alone. Taxonomically, they are trees if they are caulocarpic and mostlysingle-trunked. They are shrubs if they are caulocarpic and many-trunked They are bushy vines if they are climbing or trailing with aerial rootlets and caulocarpic. When they are endocarpic, even if they are large and more or less perennial, they are not trees, shrubs, or bushes, but herbaceous plant Even caulocarpic palm trees are not true trees. Now, when we consider cacti, they are woody; they are caulcarpic; they are trees, bushes, or vines. This makes a large group of cacti a "forest".

Dr. Leland Burkhart, member of T.C. & B.S. and President of Tucson Botanical Gardens, agrees that there seems to be no precise word for a cactus-covered area, but that a "forest" seems to be most logical.

# CACTUS ON MARS

Dark areas of Mars may be covered with cactus. A group of Astrobotanists in Alma Ata, Kazakhstan, USSR, have suggested this. Tass news agency quoted the scientists as saying that spectrums of light reflected from cactus growing in some of the Earth's deserts are similar to spectrographic data from dark parts of the red planet.

<sup>&</sup>quot;PERSONAL CONSCIENCE is the beginning of conservation. And when CONSCIENCE moves you to save wild-life, the sheltering trees, the fowl of the air, the waters upon the earth 'and all that is in them', you are saving America."

(A quote from Donald Culross Peattie's article, "What YOU Can Do About Conservation", July 1938 Reader's Digest). Submitted by T.C.& B.S. member J. F. Brick.

ARIZONA'S NATURAL BEAUTY is a fragile, God-given thing. Those who are capable of obtaining inspiration and pleasure from it have a right to its preservation. It is a right that should not be violated by those esthetically illiterate persons who can be satisfied with ugliness and disorder in their environment.".....Phil Stitt, Editor, "Arizona Architect".

#### NEED FOR SMELTER SMOG CONTROL

The clear skies, warm temperatures, and dry air, once Arizona's greatest asset, are being further threatened. Gaseous poisons spewed from stacks of copper mine smelters, especially the SO<sub>2</sub> sulphur dioxide, more deadly than carbon monoxide, have caused an all time high this summer in the pollution of the air we breathe.

It has been reported to me by a high authority in the National Forest Service that personnel manning fire stations in the Catalinas, at times due to smelter smog density, would be unable to see the smoke of a forest fire if one should start within five thousand yards of their observation post. Futhermore, he said, that a recession in the growth of saguaro has been noted, due to the sulphur dioxide turning into sulphuric acide upon contact with the moisture caused by night atmospheric condensation; thus resulting in death to many of the seeds.

The average citizen does not realize that the most harmful pollutants in smelter smoke are invisible. However, they do remember that during the period when the mines were shut down the air was easier to breathe, the stars could be seen at night, and the miles of visibility were dramatically increased.

Tucson, once one of the best areas for good health, is now beginning to run down hill, and, according to the majority of doctors, is fast becoming one of the worst areas for the irritation of sinus and other respiratory difficulties.

It is estimated that the smelter smog will double within the next ten years unless something is done NOW to stop the damage it is causing to health, property and plant life.

# A CONSERVATIONIST'S LAMENT

The world is finite; resources are scarce, Things are bad and will be worse. Coal is burned and gas exploded; Forests cut and soils eroded. Wells are dry and air's polluted; Dust is blowing, trees uprooted. Oil is going; ores depleted; Drains receive what is excreted. Land is sinking; seas are rising. Man is far too enterprising. Fire will rage with Man to fan it; Soon we'll have a plundered planet. People breed like fertile rabbits, People have disgusting habits.

MORAL: The evolutionary plan: Went astray by evolving Man.

# THE TECHNOLOGIST'S REPLY

Man's potential is quite terrific.
You can't go back to Neolithic.
The cream is there for us to skim it.
Knowledge is power, and the sky's the limit.
Every mouth has hands to feed it.
Food is found when people need it.
All we need is found in granite.
Once we have the men to plan it.
Yeast and algae give us meat.
Soil is almost obsolete.

MORAL: Man's a nuisance, Man's a crackpot, But only Man can hit the jackpot.

(By Kenneth Boulding, at the Wenner-Green Foundation for Anthropological Research International Symposium, "Man's Role in Changing the Face of the Earth."-- Princeton, N.J., June, 1955.

#### CHOLLA CACTUS IN NEW MEXICO SPRAYED WITH HERBICIDES

U. S. Forest Service Officials say that the weed-killing chemicals, 2, 4, 5-T and 2, 4-D have been sprayed over 45,000 acres in New Mexico, to control sagebrush, rabbit brush, CHOLLA CACTUS, and other undesirable plants. This is a program to increase grass and water on Forest Service land. At present, this spraying with these herbicides has been suspended. Government agencies are to decide whether to forbid the manufacture and use of them.

# THE WRONG WAY TO PLANT CACTUS SEEDS

The March-April 1969 CACTUS AND SUCCULENT JOURNAL has an article on page 85 entitled THE WRONG WAY TO PLANT CACTUS SEEDS which might inspire some other cactus lovers who have as yet met with indifferent success. The author had followed Edgar Lamb's "Cacti from Seed--the easy way" on which his comment is "What a laugh"; Haselton, Houghton, Borg, and all the others, including purchase of a Gel an dictionary and translating Backeberg. Scanty germination was soon leveled by damping off, so that the percentage was hardly worth the effort, a blow since his taste was for the rare and unusual and growing his own the only way to acquire them. He says that now he happily announces distinct success after adopting the method used in growing rhododendrons! Everything about the procedure is wrong and completely contrary to cactus rules, but he has had nearly 100% success with small or large, fresh or the age of Noah, even hard and horny, his experience--presto, healthy and exotic seedlings, any time of year. Essentially he puts wet, shredded sphagnum moss in a plastic pot, drops the seed on top, inserts it in a plastic sandwich bag, twists the top tight with a rubber band, and "lets her go." In a few days the seeds germinate, are kept airtight until they reach about one-half inch or more in height and then they are plump,

normal plants, distinguishable as a type of cactus. He has kept them confined in the bags as long as three months without any airing before picking them out, with no losses.

Since this experiment evidently is only about eighteen months old, there is no conclusion as to their subsequent health and ability to produce flowers. However, it is interesting and intriguing and anyone who wants to experiment will find details in the article.

#### TUCSON BOTANICAL GARDENS

900 South Randolph Way Harrison Yocum, Founder Randolph Park Leland Burkhart, President

Tucson Botanical Gardens, Incorporated, is a non-profit organization cooperating with the garden clubs, school groups, other community interests, and the City Parks and Recreation Department. This cooperative arrangement provides for the use of a temporary Display Facility located at 900 South Randolph Way in Randolph Park, with no admission charge. Seasonal Botanical Showings are publicly featured. Viewing by individual clubs and other organized groups can be arranged by phone 327-5986. Appropriate docents will be provided from local talent during group visits.

Our goal for 1970 is one thousand members, for developing ideas, plans, and programs. Memberships are open to the public and are cordially accepted through the above address. Contributions are gratefully acknowledged. Useful botanical information and group tours will be made available to the membership and to contributors, with special reference to selectivity and proper care of plants for the local area.

The president on request will be pleased to explore pertinent ideas for development with local clubs and other groups. Phone evenings 325-8730. We are very pleased to have the cooperation of the Tucson Cactus & Botanical Society.

Our long-range planning includes in successive stages, a permanent Botanical Display Center, Tropical Growing Unit, and Cool Environment Facility. Foliar, flowering, and fruiting plants will be featured in attractive vistas. The enchanting paradise of exotic trees, shrubs, and herbs, water falls, aquatic pool, and lush growth of orchids, palms, ferns, bromeliads, and many other plant forms will be displayed with appropriate information. Within these structures, there also will be demonstrated the conservative use of water.

Our program encourages the development of information relative to adaptability, care, and usage of a wide spectrum of world plants for growing in the Tucson area aided by artistry, curiosity, knowledge, research and technology. Appropriate outdoor test areas will be developed. Tucson Botanical Gardens will offer a Public Showing at their Display Center, 900 South Randolph Way, on March 15, 1970. No admission charge.

Tucson Botanical Gardens.

#### CACTI

The centuries roll by
And the face of the earth is transformed.
But there dwells among the far-distant
mountains of America,

As timeless as the clouds that pass overhead, A mighty genus of plants:

......From "Cacti" by Walter Kupper,

Immortal runes from remote antiquity,
They defy the perils of life.
Struggle and adversity are their fate;
Determination and tenacity, their weapons.
And when they unfold their blossoms,
An eternal melody seems to

play

# HOW PLANTS ARE NAMED

# PART II CONTINUED

## BY

# Harrison G. Yocum

-inum lurida-pale yellow - same as -ina -inus lutescens-yellowish invictis-unconquered lutea-yellowish involulata-intricate, involved lux-light, day -ior - Suffix meaning - more -iosa - same as -ior Miso - equal machaero-dagger -issimus-Suffix meaning - very macra (o) - large, long ithi - straight maculata-spotted, stained ithy magna-large major-larger malaca-soft juglans - walnut mammilla-nipple juncusrush, reed-like plant mammillata-with nipples or small junipera - pertaining to a juniper tubercles juxta - close to, by the side of mammillaris-tuberculate mandragora-the mandrake lacerata-deeply or irregularly cut manica-sleeve along the edges margarita-pearl laciniata - having the margin cut into marginalis-of a border deep, narrow lobes marginata-having a distinct border lactea-milky maritima-of the sea laevis-smooth marmorata-marbled, spotted lamella-a thin plate or scale mastus-breast, breast-shaped lampro-brilliant, bright maxima-greates, largest lanata-woolly, with long, soft, more or less) entangled (not matted) hairs media-middle, intermediate lanceolata-lance-shaped, several times - great, large longer than broad and tapering from megalo near the base to a pointed apex meia-smaller, fewer lanuginosa-downy, with fine soft hairs meio-less lasia - hairy melano) - black lati-broad, wide leio(s) - smooth melo-melon or apple (shape) lepida - scale -meris-Suffix meaning-parted lepta - thin, delicate, fine, slender leuca - white mesembria-midday meso-middle, intermediate lignosa - woody metallica-like metal, metallic ligulata-strap-shaped limi-file-like micro-small linearis-long and narrow with the margin mille (i)-thousand minor-smaller parallel lingua-tongue minuscula) lini-thread minuta ) very small littoralis-of the seashore mirabilis-wonderful, marvelous lomata-fringed, bordered mitis=mild soft mitri-turban longa (i) - long lopho-crested mona-one, single montana-of the mountains loricata-armed loxo-oblique mucronata-ending abruptly in a sharp lucida-shining, brilliant luna-moon point or short spine lunata-crescent-shaped multi-many myria-numberless, very many, countless



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# PROGRESS OF CACTI REFORESTATION PROJECT

Theofirst plantings of seedling cacti have been postponed until further notice. This has been caused by a change of schedule in the Society's monthly program. At this time it is well to report progress made with our seedling cacti. Seedlings of the following cacti are now in various stages of growth in greenhouses of a number of our members: Carnegiea gigantea (saguaro), Ferocactus acanthodes (red spine barrel), Echinocereus rigidissimus (rainbow), Echinocereus triglochidiatus (claret gup).

All members who are raising cactus seedlings for our Cacti Reforestation Project are urgently requested to advise J. F. Brick of their progress. plans can be made for a controlled planting schedule for the future.

.....J. F. Brick, Chairman

DIRECTOR LAMB OF "EXOTIC COLLECTION" IN TUCSON

Edgar Lamb of England has been well known in the cactus world for forty years. Brian Lamb, his son, studied biology for six years. Then he joined his father as a Director of "The Exotic Collection" Worthing, Sussex, England. They are co-authors of the four volume series, "The Illustrated Reference on Cacti and Other Succulents"; also, "Stapeliads in Cultivation"; and "Pocket Encyclopaedia of Cacti in Color". In addition, the Lambs have been publishing since 1948 a monthly about "The Exotic Collection", along with Photographic Reference Plates. This Collection is the largest in the United Kingdom, containing 8000 species of plants---a fine, all-around collection of cacti and other succulents.

Brian Lamb presented a program at the May meeting of our Society. He was granted his one urgent request of Tucson--that the meeting be held at night. Naturally, he reserved the daylight hours for his trips to our very interesting local cacti habitats.

APRIL CACTUS SHOW OF TUCSON CACTUS & BOTANICAL SOCIETY

The Tucson Garden Club's headquarters at 311 North Campbell Avenue was the scene of its annual standard flower show on April 4th. We were invited to exhibit plants. We loaded a six foot table with unusual and eye-catching cacti and other succulents. Plants receiving the greatest comment were Gymnocalycium Mihanovichii. f. Ruby Ball, grafted cacti, and all cacti that obligingly were in full bloom at that time.

Members who displayed plants were: James A. Robbins, John Robbins, Hildegard Nase; Alan Blackburn and Nancy Clarke who took flowering cacti. The Robbins team manned the exhibition table. There was a poor turnout of participating T.C.B.S. members in this most worthwhile activity. It is also reported that many visitors at the Flower Show commented most favorably on our exhibit. You and we KNOW that many of you members have plants well worth exhibiting. Are you not proud of your fine plants? Does it not give you deep satisfaction to "show off" your fine plants? We'll see you and your fine plants at all cactus shows in the future!



DR. WILLIAM G. McGINNIES

# DEDICATION TO DR. WILLIAM G. MCGINNIES

We proudly dedicate this issue of CACTUS CAPITAL CHATTER of the year of our Decennial (1960-1970) to the honoring of Dr. William G. McGinnies, founding president of Tucson Cactus Club, later named Tucson Cactus and Botanical Society. Charter members retain most pleasant memories of the year 1961 under his fine leadership. Members during 1962-1970 have felt very fortunate in becoming acquainted with him and participating with him in our activities.

Dr. William G. McGinnies has been associated with Tucson Cactus & Botanical Society for ten years. Cactus John Haag who was the founder of our organization placed an ad in a Tucson newspaper in November, 1960, inviting those persons interested in forming a cactus club to meet at his home. Dr. McGinnies read the ad and attended the meeting. Being a botanist, he naturally had an interest in cacti, and he felt that a cactus club should thrive in Tucson in the midst of a great cactus area. Thus was "Tucson Cactus Club" founded in 1960, and the founding group elected Dr. McGinnies as its first presi= dent. He served well and faithfully,

under the responsibilities of leading a new organization into stability; setting up interesting meetings, constructive field trips, and study sessions; choosing committee members who would properly serve the goals of Tucson Cactus Club.

Dr. McGinnies is a distinguised scholar and administrator in his several professional fields. He was graduated from the University of Arizona, 1922, with the B.S.A. degree, majoring in biology. He received the Ph. D. degree from The University of Chicago, 1932, with major work in plant ecology. He is a member of professional societies in ecology, range management, tree-ring study, biometeorology; the American Association for the Advancement of Science (fellow) Arizona Academy of Science. He has authored nine important publications related to the Arid Publications. The University of Arizona awarded him the 75th Anniversary Medallion of Merit, 1960. He is a Fellow in the World Academy of Art and Sciences. His professional activities have been in the U. S. Forest Service; Soil Conservation Service on the Navajo Indian Reservation; Range Research, U.S.F.S.; Guayule Emergency Rubber Project; Director, Laboratory of Tree-Ring Research; Coordinator of the Arid Lands Program, U. of A. At present, he is Research Ecologist, Office of Arid Lands Studies, University of Arizona. The Committee on Desert and Arid Zones Research of the Rotary Club of Tucson has just conferred on Dr. McGinnies its 1970 Certificate of Merit, for his distinguished contributions to arid zones research and understanding. He was chosen as "Star of the Day" for April 9, 1970, for the Cele Peterson radio program.

# CACTUS JOHN'S DREAM

The Tucson Cactus Club was the Dream of Cactus John Haag. We met John in early 1959, and from the start we became very close friends. He visited us a couple of times a week. We did the same with him. On our first visit Cactus John brought up the subject of organizing a cactus club. We became very interested. As the weeks passed, we became more determined to organize one. Neither of us seemed to know how to go about it. In the meantime we decided on a cactus collecting trip to Texas. So, on Friday, May 22, 1959, Cactus John, Alta and I left for Alpine, Texas in our car. To say that we had a very enjoyable and successful trip would be putting it mildly. We arrived home in the night of the 25th, with around 1000 cactus plants composed of 33 different kinds. On this trip John taught us quite a little about cacti. A few days later he and I ordered 100 cacti each, from Old Mexico. We received about 75 different kinds each, ranging from 2" to 3" in diameter. Today, some of them measure 7" to 9" in diameter.

John Haag was Curator of Plants at Arizona-Sonora Desert Museum. This offered him a fine chance to emeet and talk with those visitors who were interested in cacti. Someone suggested that he call a meeting. He placed a small ad in a Tucson newspaper, inviting the public to a meeting on a certain Sunday. So many came that his house where they met was filled and some persons were standing. John took charge and explained the object of the meeting. In due time, a name for the club was decided upon, "Tucson Cactus Club", with everyone voting. Officers were elected, with Dr. W. G. McGinnies as founding president. The Club was on its way. I paid one year's dues for Alta and me, and several others did the same. By-laws were formulated, voted on and accepted. At every following meeting, more persons joined; everybody seemed most enthusiastic and really enjoying each meeting. Meetings were held once a month at John's home on Giaconda Way, Casas Adobes. John got collecting trips going, and all were happy. From the start, John offered to deed his equity in his house and garden to Tucson Cactus Club, with the stipulation that he could live there as long as he liked. There was talk of trying to raise money to pay off the mortgage, but that was as far as it went. When John passed away very suddenly in 1962 with a heart attack, all plans were dropped.

Some time in 1962 someone changed the Club's name from "Tucson Cactus Club" to "Tucson Cactus and Botanical Society". It was incorporated under this name. The Society has done very well and has had many members. It also has had some sad times. Cactus John's sudden passing was a severe shock to the entire organization, as he had grown dear to all of us. He was really the backbone of Tucson Cactus Club and will always be greatly missed. We have also lost by death several other fine members who are truly missed.

---P,G. Nichols, honorary member of T.C. & B. S.

# REPORT FROM TUCSON CACTUS & BOTANICAL SOCIETY'S LIBRARY

Recent excellent additions to our Library are: "Native Cacti of California" Dr. Lyman Benson. "A Synonymy of the Genus Gymnocalycium". "Pocket Encyclopedia of Cacti in Colour", Edgar and Brian Lamb. "Dictionary of Genera and Subgenera of Cactaceae", Byles. "The Cacti of Arizona", by Dr. Lyman Benson, donated to the Library by Alan and Betty Blackburn. Address of our library: 2754 North Campbell Ave. at the Nancy Clarke Insurance Agency. Take yourselves on out to this fine source of information awaiting you as hobbyist kaktophiles who certainly need to bone up on every phase of the cacti.

NAME	ADDRESS		TELEPHONE
Alexander, Miss Jean	2617 E. 9th St., Tucson	85716	325-2250
Almquist, Mrs. J. A.	Rt.2, Box 812, Tucson	85715	298-0075
Anderson, Mr.& Mrs.H.M.	4333 E. Monte Vista Dr., Tucson		325-7443
Ashton, Mr. & Mrs. W. H.	5331 E. Placita Bosque, Tucson	85718	
Benton, Mr. & Mrs. Earl	1231 N. Rosemont Blvd., Tucson	85716	327-2021
Black, Mrs. Agnes	1438 E. Miles St., Tucson	85719	622-1396
Bolton, Mrs. Helen	1742 N. Louis Lane, Tucson	85716	793-7254
Bolton, Craig Blackburn,Mr. & Mrs.Alan	1742 N. Louis Lane, Tucson	85716 85705	793-7254
Brick, Mr. & Mrs. Joseph	Route 9, Box 964M, Tucson	83703	623-0490
F.	5202 Genematas Drive, Tucson	85704	887-5740
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Chipman, Col. & Mrs. A.D.	801 Camino de los Padres, Tuc.	85718	297-2317
Christensen, Misses Rosa			
& Anne	4202 E. Kings Rd., Tucson	85711	327-4601
Christenson, Mrs. Alice	4701 N. Reno Ave., Tucson	85705	887-2009
Clarke, Mrs. Lois	3315 Treat Circle, Tucson	85716	325-1838
Clarke, Miss Nancy	3315 Treat Circle, Tucson	85716	325-1838
Coan, Mrs. Louise Cole, Mr. & Mrs. Wesley	2762 N. Grannen Rd., Tucson 9101 Overlook Dr., Tucson	85705 85704	623-5279
Craine, Mr. & Mrs. C.P.	4233 N. Flowing Wells,	63704	
,	Lot 58, Tucson	85705	887-6125
Czayo, Mrs. Sylvia	4301 W. Drexel Rd., Tucson	85706	294-6071
Dean, Mr. & Mrs. Roger	1405 E. Grant Rd., Tucson	85719	326-9863
DeHaven, Mr. & Mrs. T.V.	431 S. Alvernon Way, Apt. 103		
<b>-</b> 111	Tucson	85711	327-0676
Dobbins, Mr. & Mrs. Hugh	8817 Lancaster Rd., Tucson	85715	296-4141
Ellinwood, Mrs. R. E.	40 E. Calle Claravista, Tucson	85716	325-9533
Fisher, Mrs. Georgia Frans, Mrs. Pauline	31 E. Kings Rd., Tucson	85705	225 0062
Fuller, Mrs. Lura B.	2613 N. Wilson St., Tucson 1171 E. Seneca St., Tucson	85719 85719	325-8862
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Jones, Mr. & Mrs. Henry	6142 E. Lee St., Tucson	85716	298-6365
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Largen Mr ( Mrg Thomle	Tucson =	85719	299-9118
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	Tucson	85705	622-5409
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Watrous, May	4618 E. Cooper St., Tucson 3656 N. Mountain Ave., Tucson	85711 85719	793-2230 326-0631
Wills, Mrs. Edna Winslow, Mildred	2539 E. Linden St., Tucson 1601 N. Sonoita St., Tucson	85716 85716	326-8969
Yocum, Harrison G. Yocum, Mr. & Mrs. Harry	1628 N. Jefferson Ave., Tucson	85716	296-0764
Young, Col. & Mrs. Wm.M.	1628 N. Jefferson Ave., Tucson P.O.Box 4758, Tucson	86716 85717	296-0764 297-2179

# PATAGONIA-SONOITA CREEK SANCTUARY APPROVED

The Patagonia-Sonoita Creek Sanctuary, 309 acres in Santa Cruz County, has been approved for inclusion in the National Registry of Natural Landmarks by Secretary of the Interior, Walter J. Hickel. This Sanctuary is a strip of rich bottom land along Sonoita Creek. The thick-billed kingbird and the beardless flycatcher reach the limits of their range along the creek. The rose-throated becard, one of the rarest birds in the United States, is not known to nest at any other place in the country. The Nature Conservancy in Arizona bought and paid \$300,000 for this acreage along the Creek, to preserve it in its natural condition for the use and enjoyment of the American people who owe Conservancy a truly great debt of appreciation.

# REPORT OF THE 23rd Annual Cactus Show at Desert Botanical Garden:

Desert Botanical Garden of Arizona staged one more wonderful cactus show in February 1970. 13,414 enthusiastic visitors attended this show. Capable judges of many categories served: Mr. and Mrs. Don Skinner of Los Angeles; Mrs. S. R. Stevens, Mr. G. G. Williams, and Mrs. C. H. Morris; Mr. and Mrs. Salvatore Macri; Charles R. Conley. 112 exhibitors showed 1101 exhibits—an increase of nearly 60% over 1969.

The several ambitious and energetic members of our Society who entered the Show came home smothered in awards--Sweepstakes, Trophy, and Ribbon Award Winners. Our member, John Robbins, has compiled in detail a report of the specific plants which members of Tucson Cactus & Botanical Society entered in this Show. Limited space prohibits our publishing this most interesting detailed list. CHATTER editor has filed it in our Library where you may read it. Address of our Library: 2754 North Campbell Avenue in Nancy Clarke Insurance Agency.

#### CACTUS SHOW WINNERS FROM TUCSON

SWEEPSTAKES AWARDS: Cacti: Alan Blackburn. Leaf Succulents: James A. Robbins

TROPHY WINNERS: Best Cactus: Alan Blackburn. Collection of 5 Cacti: Betty Blackburn. Patio Planter: James A. Robbins

#### RIBBON AWARD WINNERS:

Section I. Cacti. Class A. Potted Plants.

- Opuntia. lst--Nancy Clarke.
   Cereus. lst and 3rd--Alan Blackburn.
   and 4th -- Nancy Clarke.
   Echinocereus. lst--Alan Blackburn. 4. Rebutia. 1st--John Robbins. 4th--Alan Blackburn. 5. Chamaecereus. 3rd--Alan Blackburn. 6. Lobivia. lst--Alan Blackburn. 2nd Nancy Clarke. 4th--Hildegard Nase. 7. Echinopsis. 1st and 3rd--Alan Blackburn. 4th--Nancy Clarke. 8. Ariocarpus. 1st--Alan Blackburn. 10. Ferocactus, 1st and 4th--Alan Blackburn. 11. Echinocactus. 1st and 4th--Alan Blackburn. 12. Gymnocalycium. 2nd, 3rd, 4th--Alan Blackburn. 3rd--Alan Blackburn. 4th--Nancy Clarke. 15. Echinomastus Astrophytum. 2nd--Alan Blackburn. Coryphantha. 1st and 4th--Alan Blackburn. 17. Mammillaria. 3rd and 4th--Nancy Clarke. 18. Notocactus. 1st--Nancy Clarke. 2nd--Alan Blackburn. 3rd--Anne Christensen. 19. Neoporteria. lst, 2nd, 3rd--Nancy Clarke. 20. Parodia. lst, 2nd, 3rd--Alan Blackburn. 4th--Hildegard Nase. 21. Seedlings. lst--John D. Robbins. 22. Any other species. 1st--Betty Blackburn. 24. Turbinocarpus. 2nd--Anne Christensen. 25. Pediocactus. 1st, 2nd, 3rd--Alan Blackburn. 26. Oreocereus. lst--Alan Blackburn. 27.Cephalocereus.4th--Nancy Clarke 28. Dolichothele. 1st, 2nd, 3rd--Alan Blackburn. 29. Espostoa. lst, 2nd, 3rd-Nancy Clarke. 30. Neochilenia. lst, 2nd, 3rd-John D. Robbins. 31. Frailea. lst, 2nd, 3rd-John D. Robbins.
- Class C. Monstrose Plants. 2nd--Nancy Clarke.
- Class D. Grafted Plants. lst--Nancy Clarke. 3rd and 4th--John D. Robbins. Class E. Collection. (5 different species of a genus). lst--Betty Blackburn. 3rd Alan Blackburn.

SECTION II. Succulents Other than Cacti

Class A. Potted Plants. 3. Aloe, 1st and 4th--James A. Robbins. 5. Crassula. 1st, 2nd, 4th--James A. Robbins, 3rd--John D. Robbins.

SECTION II. Succulents Other than Cacti

Class A. Potted Plants cont'd.

8. Euphorbia. 2nd--John D. Robbins. 4th--James A. Robbins. 9. Gasteria.

3rd--James A. Robbins. 12. Lithops. 2nd--James A. Robbins

3rd, 4th--John D. Robbins. 13. Mesebryanthemum. 1st, 2nd, 3rd--

James A. Robbins. 16.Stapelia.

3rd-James A. Robbins. 19. Any Other Species. 3rd--James A. Robbins. 21. Bromeliad. 3rd--John D. Robbins. 22. Cucurbitaceae. 1st, 2nd, 3rd--

James A. Robbins. 23. Andromischus. 1st, 2nd, 3rd--James A. Robbins.

24. Faucaria. 1st, 2nd, 4th--James A. Robbins. 25.. Ophthalmophyllum. lst, 2nd, 3rd--James A. Robbins. 26. Dinteranthus. 1st, 2nd, 3rd--James A. Robbins.

Class B. Collections. 4th--James A. Robbins.

SECTION III. Desert Trees and Shrubs.

Class E. Any Other Desert Plants. 1st--James A. Robbins.

SECTION IV. Arrangements. Class A, Dish Gardens. 2. Other Succulents. 4th--Betty Blackburn. 3. Cacti and Other Succulents. 4th--Alan Blackburn.

Class F. Button Arrangements. 4. Natural Dried Desert Material.

lst--Betty Blackburn. Class G. Miniature Arrangements. 7. Any Other. 4th--Betty Blackburn.

Class L. Patio Planters. lst--James A. Robbins. SECTION V. Arts. (Desert Subjects).

Class B. Color Photography. I. Color Prints. Flowers. 2nd--John D. Robbins. 2. Transparencies. Flowers. 3rd, 4th--James A. Robbins.

Class C. Oil Paintings. Landscape. 4th--Ruby Jennings. SECTION VI. Educational Exhibits. 2nd--James A. Robbins.

by Isabelle Meyer, publicity chairman.)

# HAAG MEMORIAL CACTUS GARDEN

"This Garden was developed from a large area of undeveloped desert in a prominent spot in Arizona-Sonora Desert Museum. It is the most ambitious

project undertaken to date, by Tucson Cactus & Botanical Society. The Garden is in memory of 'Cactus John' Haag, who founded our club in 1960, with his home as our first meeting place. Over 2000 man hours of labor went into our Memorial to Cactus John. It was dedicated and turned over to Desert Museum on May 7, 1965. Haag Memorial Cactus Garden is unique in that it is a collection of plants native to the Arizona--Sonora Desert Region, arranged by species for easy comparison; numbered and with nomenclature boxes close by each group. These identify the plants by both common and botanical names. This is useful and informative to students, photographers and just visitors. Our Garden is featured in the booklets of Desert Museum, so it behooves us to keep it in good condition and a credit to our Club whose name is prominently displayed on the plaque." (Quoted from Cactus Capital Chatter 1967, III, 4, "If Winter Comes"

Five years later now--April 29, 1970 at Haag Memorial Cactus Garden, eight members of Tucson Cactus & Botanical Society gathered to work in the Garden. They were supervised by the Museum's Curator of Plants. They cleared

gravel from the numerous, winding paths. This gravel has been washing down from the surrounding slopes for many months. The workers were: Louise Coan, Mr. and Mrs. C. P. Craine, Mr. and Mrs. Earl Benton, Wilfred Murch, Alma Steininger, Ruby Jennings.

URGENCY! MEMBERS! SUBSCRIBERS! YOUR subscriptions to CACTUS CAPITAL CHATTER will reach you regularly, ONLY, if you act promptly in notifying CHATTER of your change of address. We cannot guess it. We cannot trace you. Please notify us thus: CACTUS CAPITAL CHATTER, P.O.Box 3723, College Station, Tucson, Arizona 85700. If WE make errors in your mailing address, we urge you to call this to our attention immediately. Let us be business-like.

# TUCSON CACTUS AND BOTANICAL SOCIETY AT THE SUN FAIR

The exhibitions of the Tucson Sun Fair at Armory Park on Saturday and Sunday, March 14th and 15th, drew a crowd of over 12,000 persons. We really were kept busy answering thousands of questions, and we had many, many compliments on our beautiful blooming cacti and succulents. Many winter visitors had never seen cacti in bloom. Children wanted to start their own desert gardens. Persons in wheelchairs were brought to our tables to look and admire, and many bought a plant as a souvenir.

Our most appreciated helpers were: Earl Benton, Harry Yocum, James Robbins, John Robbins, Craig Bolton, Wilfred Murch, Werner Nase. Hildegard Nase was chairman of this exhibit which was sponsored by Tucson Cactus and Botanical Society. Plants were exhibited by members: Alan Blackburn, James and John Robbins, Craig Bolton, Arthur Klein, and Hildegard Nase. Total plant sales were \$120.00. A net 25% of sales going to our society amounted to \$30.00.

# OH! YES! IT BLOOMED!

In 1959, a friend dropped by to give us a Joshua tree (Yucca brevifolia), about two feet tall. We planted it, and it proceeded to make something of itself. We watered it and watched it year after year, hoping that it would start branching and produce a flower. We had seen the Joshua blooms in the Joshua Forest in California in 1945, but really had forgotten what they are like. Then, on February 15, 1970, Alta discovered a bloom on our tree. It is now all of ten feet tall, and the flower in full maturity was six inches in diameter and fifteen inches tall. It looked something like a popcorn ball. It was truly worth waiting eleven years to see. phoned several friends who I thought would like to see it. One was Joseph Brick who phoned the Arizona Daily Star. The next day the Star sent Harry Lewis to take a picture of it, and this picture appeared in the Star on March 17th. During the next several weeks, we had lots of company----people from many different states came to see our blooming Joshua tree and to take pictures of it. We are now patiently waiting for February 1971 to arrive so that we can see it bloom again.

---P. G. Nichols, honorary member of T.C.& B.S.

# AUTOS KILL TREES

City-dwellers who feel apprehensive about automobile exhausts and carbon monoxide (which can be a killer) probably have read with some interest recent stories of how trees have suffered from air pollution and have had to be cut down.

In Northern Arizona, along mainly-traveled highways, conifers have begun withering, singly and in patches, within perhaps a half mile of the road. A theory is that auto exhausts are causing the damage. To see a number of trees that have turned brown in a forest of green is a striking and alarming sight. (Bark beetle is not involved).

The nation faces monumental pollution problems. Depending on where one lives, one factor is larger than another, The auto is everywhere.

....Arizona Daily Star, 4/9/70



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VOLUME VI 1970 No. 3

# 1970 IS THE 10TH ANNIVERSARY OF THE FOUNDING OF TUCSON CACTUS & BOTANICAL SOCIETY

DEDICATION

CACTUS CAPITAL CHATTER proudly dedicates this issue to those Charter Members of our club whose serious, dedicated interest in cacti and the other succulents has steadily kept them on the membership roll of our organization, 1960-1970. They are among those who willingly assume responsibilities and work assignments which are the life blood of this and every successful organization. These Charter Members are: Lena Marvin, Lura Fuller, Alan and Betty Blackburn, Dr. and Mrs. W. G. McGinnies, Helen Bolton, Craig Bolton, Mr. and Mrs. P. G. Nichols, Mrs. J. A. Almquist, Mrs. Agnes Black, W. D. Haselton, John Kawchack, H. S. Thomas.

# OUR CONGRATULATIONS TO MR. AND MRS. F. LEE FULLER

Mr. and Mrs. F. Lee Fuller celebrated their 60th wedding anniversary on July 18th. They were married in Ashtabula, Ohio on July 23, 1910. They have three children, five grandchildren, and two great-grandchildren. Mrs. F. Lee Fuller is a charter member of Tucson Cactus & Botanical Society. Lura Fuller has been and continues to be a pillar of our club. For ten years she has actively contributed to the progress of Cactus Club in her work on various committees. She has served as hostess on the refreshment committee. For several years, she has been serving Cactus Capital Chatter staff in the efficient mailing department. Her other favorite interests include: D.A.R., her cactus garden, photography, Y.W.C.A. and travel. She and Mr. Fuller have toured most of the U.S.A. including Hawaii; and most of Free Europe. They have many fine travelogues of their trips.



MR. AND MRS. F. LEE FULLER

# "I CAN HEAR THE VOICE OF BAJA LURING ME BACK."

#### William A. Pluemer

Member of Tucson Cactus & Botanical Society

During the latter part of October and early November of 1969, I first drove Baja from Mexicali to Cabo San Lucas, an experience that whetted my appetite for this strange, wonderful, and harsh land. The Iure of "The Baja" had taken hold, and it was inevitable that I should soon return.

Having acquired our vises in Tucson, my neighbor, Ray Lucas and I departed for Calexico on the 4th of May, 1970. Here we planned to spend the night before heading south for San Felipe. Our itinerary duplicated our 1969 trip as far south as Bahia de Los Angeles, thence to San Borja and west to Route #1. From Rosarito we were to continue to the coast, turn north and intersect Route #1 again, some 20 miles further on. Thence on to El Rosario, San Telmo and across the "High Country" to the San Felipe highway, completing the circuit some 30 miles north of that resort.

My foremost desire was to find the beautiful Cochemiea setispina (see ill. C & S Journal 1966 Yearbook) in the San Borja area; collect samples of mammillarias from specific areas given me by Dr. Archie Deutschman; photograph again the fantastic forms of Idria Columnaris (Boojum tree), Pachycormus discolor (Elephant tree); and sample the plant life along the Pacific coastal areas not before traveled.

After topping off our auxiliary gas tank, we left the blacktop at San Felipe and headed **Sou**th toward the fishing village of Puertecitos. To our amazement we made this 52 mile run in 3 hours vs. 4 hours 10 minutes noted in last year's log. Over a cool drink there, local American sportsmen informed us that the "road" had been graded a month or so before. The extra hour saved was spent locating a suitable campsite on the beach some 6 miles further on. Here we spent our first night in Baja buffeted by winds strong enough to lift our cots partially off the ground periodically during the night.

The road south from Puertecitos is probably the worst that can be encountered in Baja. However, the **see**nery, opening up to spectacular views of the Gulf, is worth the grating, grinding and frustrations encountered. Coming off the sixth and final rock-strewn grade onto the flat coastal country, we spotted some 30 porpoises disporting rather close to the beach. Taking available side trails to the water's edge, we were able to follow them for several miles until they disappeared behind a rock outcropping in the sea. From tidal rocks I quickly collected a bag of living pink murex shells, much sought by collectors in the Guaymas area. Until this time I had not known these creatures to adhere to rocks above the water line. Planning to reach Bahia de Los Angeles late the next day, I chanced these shells remaining within the limits of our nasal sensitivities for the next 36 hours.

Turning inland from Bahia San Luis Gonzaga, we entered the rough country, traversing areas of sand, gravel, boulders, and rock outcroppings. Enroute to Las Arrastras the first Elephant Trees announced themselves, and we continued toward Arroyo de Calamjue. Leaving the sloping desert plateau for an almost instantaneous and precipitous drop into this desert oasis comes as a shock. In 1969 we had camped just short of the arroyo and traversed much of it in the predawn light. This year I wanted to "run"it with full sunlight so I could assess all the photographic possibilities. One's first impression of this arroyo is of complete disbelief. Here is running water, and all the rich verdancy consequential to this life-giving fluid.

One can see a grassy slope, an occasional palm, trees, shrubs and other greenery in generous proportion. All of this locked between rocky walls supporting families of red-spined Ferocactus gracilis, yuccas, agaves, opuntias and numerous other varieties of desert plant life. Coming out of the heat and dust, the smell of water is over-powering, and the opportunity to wash faces, hands and windshield was not lost. Our wheels constantly swished in the little stream as we continued higher and higher through the arroyo until the first Boojum appeared at the canyon egress.

If it is possible for a plant lover's pulse to beat any faster after all of this, emergence into a real, living cactus forest from Arroyo de Calmajue can speed it up considerably. The vista now opened up into one of such beauty as to defy any description ever penned. With stark mountains as a backdrop, the boojums, cardons, senitas and yuccas marched downslope for miles, surrounded by dense populations of smaller though no less interesting plants. Coming in May as we did, I was delighted to find the Boojums wreathed in gold, having leafed out during the winter rains and now preparing for the long drought. Backlighted by the falling sun against a dark mountain, the Boojums' grotesque forms were a photographer's delight. This was also the first occasion I had to see the cardon Pachycereus Pringlei) and Senita (Lophocereus Schottii) in bloom. The road here was a smooth, sandy trail, giving one the impression of driving luxuriously through an endless glasshouse with new surprises in store at each turning.

We made our second camp amidst this scene, and in the long evening afterglow I hunted plants until the stars took over. Our cots were at the base of 30-foot Boojums, whose silhouettes grew into mystic proportions as the night darkened. Dawn brought a 36-degree cold Pacific fog, providing an even more Dantesque atmosphere which, until the sun broke over the Eastern mountains, left us with a feeling of mute wonderment. The treasures collected the previous day were packed, and we broke camp for Bahia de Los Angeles. The balance of our third day in Baja was spent in similar country until we neared the long coastal decline into our destination. Arriving in late afternoon we immediately availed ourselves of a much needed shower and change of clothes.

As the sun lengthened its shadows towards the off-shore islands, we joined in the comraderie of men brought together in remote places. Much to my surprise and great pleasure I was introduced to Mr. Glenton Sykes of Tucson. To Mr. Sykes' father has gone the honor of bestowing the name "Boojum" to Idria Columnaris, much to the everlasting consternation of the academic community. The following morning I discarded plans for a trip to Smith Island because of rough seas, and we toured south along the coast for 7 or 8 miles. Entering a coastal cactus forest of cardon, machaerocereus and fierce Opuntia molesta, I took samples of small mams and became the proud owner of a 16-inch crest of M. gummosus. That afternoon we found the sun warm, the water invigorating and we relieved cramped muscles on the beach until near supper time.

Leaving the Diaz' resort after two nights of clean sheets and excellent meals, we retraced our route 15 miles to the San Borja cutoff. Having been unsuccessful in my previous attempts at locating Cochemiea setispina I was determined to spend as much time as necessary in the area on this trip. Armed with the Jan.-Feb. 1969 issue of the C & S Journal, I was even prepared to show the villagers a picture of this plant and enlist their help. All this without a word of Spanish! As Ray was feeling his way through

the rocky canyon, I remembered that I had once paid homage to the birthplace of Zeus in a cave in Mt. Dicta high above the Plains of Lasithi on the Island of Crete. Surely, I should have at least one mark left on the credit side of the ledger! Working our way slowly up the rocky trail I obliterated all else from my mind, forming a mental image of this plant and hoping, by some magic, to penetrate the dense ground cover. The first glimpse of white, a quick check by binoculars, and Zeus had remembered! The following hour was given over to photography and collection of selected stems from a single clump. Subsequently I went over the complete slope with binoculars and failed to logate another specimen. Someday I shall return to Mt. Dicta with an offering of a packet of hooked white spines.

Continuing by the old mission, down the road toward San Ignacito, we rode through sandy washes and rock-strewn hills. Pausing briefly for lunch, we admired the blooming mescals (Agave Shawii-Mescal) and were confronted with our first problem - a slowly deflating tire. With self-sealing tubes I had not even considered this possibility after hundreds of miles of off-the-road driving in brush and gagtus country. But here we were, a long way from nowhere and with but one spare. We nursed the tire into the village of Rosarito on Route #1 and put on the spare. Our loop trip to the coast for small mams was deferred as we considered it more prudent to stay on the "main highway" in case of further difficulties. Camping that night \*two miles above the San-Felipe-Route #1 intersection ended a rather exciting day.

Early the next morning we entered new territory en route to El Rosario, crossing Laguna Chapala in heavy silt and negotiating two more mountain passes that make driving in Baja such a unique experience. As we neared El Rosario, the Pacific coast influence began to assert itself, the ecology gradually changing to plants accustomed to cooler breezes and higher humidity. As we left behind the cirio-cardon landscape, large bushes of Myrtillocactus cochal, Bergerocactus Emoryi, and clusters of Echinocereus maritimus began to pervade. After camping in the arroyo North of El Rosario, we continued along the coastal plain toward our goal for the night, high in the Sierra San Pedro Matir-Mike's Sky Ranch. At El Socorro, looking for mammillaria louisae, I had to satisfy myself with a single M. Brandegeei struggling amidst a carpet of m. dioica. The road north from El Rosario along the coast was the worst we encountered on the trip; completely pocked with overlapping chugholes of any size we cared to test. Our progress fell to a new low, and we had far to go. Riding within sight of the Pacific breakers add looking in amazement at the utter overpopulation of cacti and succulents put me in a frenzy of exploration, but the serious work would have to wait for another time. Ferocactus Fordii was collected along with B. Emoryi.

Six days after we left the blacktop at San Felipe we rode once again on a paved road, and the silence was deafening. Our luck lasted but three miles before we turned east on the San Telmo road where Ferocactus viridescens immediately appeared among the stands of M. cochal. Valle de San Telmo is heavily farmed. The smell of irrigation; the endless fields of green crops, herds of sleek cattle make a pastoral mountain-ringed setting unequaled anywhere. The road was sandy and smooth.

We circumnavigated most of the valley at good speeds, slowing down for an occasional calf confused by our passage. Suddenly the road began to climb, and for almost two hours we roller-coasted from one peak to another, always thinking as we looked up at the blue sky over each pass "It simply CAN'T go any higher" - but it did! The views into the valley below increased in grandeur with the altitude, but the driver must miss most of it

if the route is to be safely covered. Twice we were forced into four-wheel drive to negotiate steep inclines from a hair-pin curve stop, although I now believe this was slightly over-cautious.

Our welcome at the Ranch was warm, our showers hot, and the food excellent! A new tube replaced our flat free of charge and we once again relaxed in clean comfort after a gruelling three day drive. Our hosts assured us we could drive out to the San Felipe highway in less than three hours. The following morning we did exactly that, driving on good sandy roads through valley after valley until at last the Gulf came within sight. We continued via Mexico Route #2 to Nogales in order to clear the plants there, and arrived home in Tucson a few minutes past midnite- 645 miles from the Sky Ranch.

Although bone-tired, and with boxes of plants to sort and pot, I can already hear the voice of Baja luring me back in the Fall.

# SO LONG! HELEN AND CRAIG BOLTON

But not "Farewell", Tucson Cactus & Botanical Society says to these two fine ten year pillars and charter members. They are moving to Bryan, Texas where Craig will study for a Ph. D. degree in the field of Economics at Texas A. and M. College. In 1961, Alan Blackburn guided the Boltons to attending the Tucson Cactus Club as it was called then. Craig was 9 years old when he started his cactus collecting. Throughout Boltons' long, active membership, Helen served twice as Secretary. Both of them worked on many committees. Craig recently was chairman of our cactus show, 1960, in conjunction with Tucson Men's Garden Club. "Our association with Tucson Cactus Club has been one of the highlights of our time spent in Tucson. We have made many of our most valued



HELEN AND CRAIG BOLTON

friends through the organization. It is difficult to leave all of you. Our thoughts will be with you, especially on meeting days. We wish continued growth for the Club, and the best of everything"--Boltons' departing message to us. We wish you every success, Craig, in your studies. Good Luck and Fun to both of you as you follow the Cactus Trail in Texas. Do come back to us in Tucson often as you can.

----Your old friends of Tucson Cactus & Botanical Society.

# RICHTER MEMORIAL LIBRARY AT DESERT BOTANICAL GARDEN, PHOENIX, ARIZONA

Richter Memorial Library was formally dedicated, earlier this year. It houses the reference library of Desert Botanical Garden, as well as Mr. Richter's gift to the Garden of his extensive library collection of desert flora. This is one of the outstanding private collections in the world.

## Tucson Mineral and Gem World Peter and Helen Ratkevich 2801 S. Kinney Rd. Tucson, Arizona

This is a truly unique store in the Southwest, offering a wide variety of rare and unusual specimens from all over the world. As a visitor, you will find fossils of plants and animals which lived millions of years ago; beautiful crystal specimens for the collector, as well as rough and finished gemstones; handmade Indian jewelry and many handmade Indian souvenirs. For the amateur archaeologist, we have ancient relics from pre-historic cultures around the world, even an Egyptian mummy over 4,000 years old!

Peter and Helen Ratkevich are active members of Tucson Cactus & Botanical Society.

# HOW PLANTS ARE NAMED

Part II by Harrison G. Yocum

This excellent continuing educational feature in CACTUS CAPITAL CHATTER is serving as a ready reference for members of T.C. & B. S. and other readers as well. At the same time, it is offering you an excellent way to extend your vocabulary. Plant names most frequently encountered are included. This list is arranged alphabetically for ease of finding the meaning of a particular name.

```
mystax - mustache
                                      occidentalis- of the West
N-
                                      occulti-hidden
nana-dwarf
                                      ochna-pear
neglecta-overlooked, neglected
                                      ochra-pale yellowish
nemoralis-of the woodlands
                                      octa-eight
neo-new
                                      oculata-with eyes
nephro-kidney
                                      -odes-full of (suffix)
nerii= from Nerium, Oleander
                                      odonto - teeth
nervosa-full of nerves or sinews
                                      odorata-fragrant
nidulans-in a small nest or cavity
                                      oeno-vine
nidus-nest
                                      officinalis- a drug plant
niger )
        black
                                      officinarum - of medicine
nigra )
                                      -oides-resemblance, having the appearance
nitens)
                                               of (suffix)
nitida) shining
                                      olaco-furrowed
niveus)
                                      olea-oil
nivosa' snowy
                                      oligo-few
nobilis-celebrated, well known
                                      olorina-pertaining to swans
nocti-night
                                      -olus-expressing smallness (suffix)
nocturna-of the night
                                      00 (s) - egg
nodosa-knotty
                                      opthalmo - eye
notata-marked with spots
                                      orbicularis-orbicular, circular, spherical
nudi-naked, spineless, or leafless
                                      orea-mountain
                                      ornata-adorned, ornate
nutans-nodding, drooping
nycti-night
                                      ornitho - bird
0-
                                      ortha-straight
ob-reverse, in the opposite direction
obesa-fat
                                      oro-mountain
obliquus-assymetrical, unequal sides -osa-(us) - full of (suffix)
oblongi-2 to 4 times as long as broad, ovalis-oval, broadly elliptical
  with sides nearly parallel.
                                       ovi-egg
oblengatus-oblong
                                       oxy-sharp
obtusi-blunt, wider than a right angle
```

pleio-more, greater pachy-thick, stout pallescens-growing pale plena-full plicata-folded like a fan pallida - pale paniculata-arranged in panicles plumbea-lead-colored plumosa-feathery, with fine hairs on papilio-butterfly papilla-small nipple or pimpleeach side like projection pluri-more, many podo-foot papyra-paper para-beside poli-gray paradoxa-seeming contradictory poly-many parvi-small porrecta-extended horizontally pauci-few prae-very pretiosa-valuable, precious pecten-comb pectinata-comb-like, having primula-of a primrose narrow parallel projections princeps-of a prince ped-foot procumbens-prostrate, lying on the pedicillata-with a pedicel, as a stem on a flower or fruit prolifera-bearing offsets or buds freely pedila-shoe propinguus-near kindred pedio-plains prostrate-lying on the ground pedunculata-with a peduncle protea-exceedingly variable proto-first pelago-sea pelecyi-hatchet pruinosa-with a whitish, frost-like pellucida-transparent, translucent bloom, very glaucous peltate-shield-shaped, with stem pseudo-false attached near the center inptera-wing ptycho-fold stead of the edge. pendula-hanging downward, inclined puberula) finely downy or pubescent pencillata-pencil-like, ending in pubescens) a tuft of hairs pubi-downy penio-thread pugni-fist pensilis-hanging, pendent pulchella-small beautiful penta-five pulcher-beautiful pulverata-dusted with powder per-through, throughout, very perbella-very lovely pulvinata-like a cushion peri-around pumila-dwarf phaea-dusty-colored punctata-dotted with minute spots or phello-cork holes pholido-scale pungens-pungent puniceo-red or purple phora-bearing photo-light purpureus-purple-red, purple pusilla-very small, insignificant phylla-leaf pycni-dense phymata-tumor physa-wind, bellows pygmaea-very small pyramidalis-like a pyramid phyta-plant picta-painted pyra (o) - fire, fiery pili) hairy, hairs pyri (us) - pear pilosa) (pyrrha) pyrro) - flame-colored pinnata-a compound leaf with opposite leaflets pipta-to fall down quadri - four pisci-fish quinque-five plagio-oblique plans-flat platine-platinum platy-flat, broad racemosa-growing in a raceme plecto, plaited radiata-with rays

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radicans-rooting from the stem
ramosa-full of branches raphe (i) - ridged, furrowed
rastrera-creeping
re-back, again
reclinata-reclining, bent backwards
recta (i) - straight
recurvata)
recurvi) -recurved, bent backwards
(reflexa-turned backwards
(regalis )-royal
(regia)
reni-kidney
repanda-with a gently wavy
  or fluted margin
(repens)
(reptans)-creeping
resini-resin, gum
reticulata-with a network, as veins
  of a leaf
(retro)
(retrorsa)-reflexed, turned backwards
retusa-with apex rounded, or obtuse
    and shallowly notched
reversa-reversed, turned backwards
revoluta-rolled back from the margin
 on the lower surface
rhaphida-needle
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rhapis-rod rhipsala-wicker-like, slender pliable branches rhiza-root rhoda-rose-pink rhombi-top-shaped (like a spinning top) rhopalo-club rhops-shrub rhytis-fold rigida-stiff, rigid riparia-of a stream robusta-firm, strong rorida-dew rosa-rose rostrata-beaked rosulata-arranged in rosettes rotata-wheel-shaped, with flat and spreading parts rotunda-round (ruber) (rubi) - red (rubri) rufa-yellowish or brownish red rugosa-roughened, wrinkled (rupestris) (rupicola) - of cliffs or rocks

ADDENDA TO 1970 MEMBERSHIP ROSTER: Morin, Jessie, 2731 W. Alvaro Rd., Tucson, 85706, Ph. 294-6084, Robbins, Jas. A. and John D., 4820 E. Bellevue, Tucson, 85716, Ph. 326-7094; Alice Carroll, Mrs. Mildred Landreth, 1600 E. Roger Rd., Tucson, 85719

CORRIGENDUM: Cactus Capital Chatter, Vol, VI, No.2, 1970, page 2: strike out the words "Rotary Club of Tucson". Substitute the words: "Southwestern and Rocky Mountain Division of the American Association for the Advancement of Science".

MEMBERS, NOTE AND USE: 85722 is the new Zip Code number for our postal address which is: Box 3723, College Station, Tucson, Arizona 85722.

CHESTER M. SCOTT: Our members thank you for recently binding for our Library the loose copies of EL JARDINERO, publication of Tucson Men's Garden Club.

FRIENDS: Helen and Craig Bolton's new address is: 600 Esther Blvd., Bryan, Texas 77801.

CACTUS AND SUCCULENT AUCTION is our September meeting. Save your extra plants for this.

CACTUS SHOW in November. We stage Tucson's first cactus show proper. Also, it will be our own first independent cactus show.

EXPECT later this year to work on some of the 1971 National Convention decorations and prizes to be financed by us and contributed to the El Paso meeting.

\$35.00 from our Treasury has been paid to the City of Tucson toward the purchase of window blinds for the room where we meet. Now e can show slides and movies at our daytime meetings.



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VOLUME VI 1970 No. 4

IN MEMORIUM



HUGH B. SLOAN October 24, 1970

"We have no dearer word for our heart's friend,
For him who journeys to the world's far end,
And scars our soul with going; thus we say,
As unto him who steps but o'er the way -'Good-by.'
G. D. Litchfield

# HUGH B. SLOAN

Hugh Sloan was the very good friend of many of the members of Tucson Cactus & Botanical Society, dating from the early 1960's, soon after its founding. He was a genuine outdoorsman who enjoyed the plant world in many of its aspects, among his varied interests. He served as a member of the Board of Directors. He was assistant editor of Chatter at one time. We extend our sincere sympathy to Dana Sloan and to their daughter. Hugh wrote and published poetry of much interest to his associates. Here we print one of his poems.

#### THE UPWARD PATH

As we travel along the paths of life 'Mid joys and pleasures, toils and strife, Sometimes we falter and almost fail, Through the hardships encountered along life's trail.

Rivers we cross, mountains we climb Until we reach a height sublime, Where our naked soul shall stand alone Before the Master of the Great White Throne.

There, little matters of our wealth or fame. But if just square we have played the game. There, may the records upon our slate Gain us admittance through the Inner Gate.

We proudly dedicate this last issue of CACTUS CAPITAL CHATTER 1970 to the presidents of Tucson Cactus & Botanical Society of the years 1962, 1963, 1964, 1965. The year 1970 is the 10th Anniversary of the founding of Tucson Cactus Club which was later renamed Tucson Cactus & Botanical Society. CHATTER editor Shelby this year has carried through all issues, reports of the developing, young organization during its formative, first five years of existence. This period is chosen in order to give our newest members and members of only the last few years the interesting and useful background of our club--all "in a nut shell", so to speak. These presidents were actually pioneers in a very real sense, as they served in the five earliest years of our club's life----trying to set meaningful goals, devising the means of realizing them, establishing guiding policies and precedents.

CACTUS CAPITAL CHATTER salutes its early presidents of the years 1962 through 1965. Through this Dedication, we express our genuine appreciation and that of our entire membership for all they have given to Tucson Cactus & Botanical Society. ---- Editor.

1**962**, 1963

PRESIDENT DAVID SPRING'S YEARS

THE YEARS OF DEVELOPING

Tucson Cactus & Botanical Society owes David and Marjorie Spring an everlasting debt of gratitude for all that they gave of themselves to help hold our group together, as well as to establish it on a firm and lasting foundation. The sudden death of our founder, Cactus John Haag on Dec. 2, 1962, brought about a very trying time for the Club. Several legal complications arose: disposing of John's excellent library on cacti, his fine garden and its plants, and his house which was our meeting place. The Springs often opened their desert home and garden to our meetings. David's programs abounded in numerous field trips and worthwhile meetings addressed by authoritative speakers. Marjorie worked most actively on several committees, and later she became co-editor of CACTUS CAPITAL CHATTER the year of its founding.

#### 1964 PRESIDENT JACK MEYER'S YEAR

THE YEAR OF FIELD TRIPS

Of a total of 10 club meetings held in 1964, 50% were interesting, worthwhile field trips -- to such spots as: Rancho del Lago, Vail; Aravaipa Canyon, Woods Brothers' Panorama Ranch, Pinal County; Andrada Ranch. We received our Certificate of Incorporation. An improved set of By-Laws was distributed to members. Plans were begun for the Haag Memorial Garden and for being host to the 1965 National Convention of the Cactus & Succulent Society of America. Isabelle Meyer worked steadily all year, also, on the Garden. Her fine organizational skill greatly contributed to the smooth operating of the Convention. She served as club secretary and actively on many committees through several years.

No longer a member of T.C. & B.S., Isabelle visited our November Cactus Show enthusiastically. She was greeted by her many cactus friends, and it was great to have her among us again.

The eight-point goal set by Hugh Copenhaver was attained many times over what he and his officers had hoped. Outstanding points included: (1). setting up CACTUS CAPITAL CHATTER as a quarterly newsletter (co-editors were Eva Copenhaver and Marjorie Spring). (2). being host to the National Convention of Cactus & Succulent Society of America. We were a young organization merely five years old in 1965, yet we organized and entirely financed a very outstanding national convention program. This was expressed by those attending. (3). completing and dedicating the Haag Memorial Garden at Arizona - Sonora Desert Museum, in memory of our founder, Cactus John Haag. (4). successfully promoting a feeling of belonging, of fellowship, and of neighborliness among all our members. Hugh Copenhaver, no longer a member of T. C. & B. S. visited our November Cactus Show and was enthusiastic about this accomplishment.

#### FINALE FOR T. C. & B. S. FOR 1970

The December meeting of Tucson Cactus & Botanical Society will be its traditional Christmas party and gift exchange. This year, good weather permitting, it will be held outdoors in the beautiful Palo Verde Picnic Area desert of the Tucson Mountain Park.

#### DESERT SAFARI

The Cactomaniacs of Phoenix will meet on January 5, 1971. A special feature of this meeting will be "Desert Safari" presented by Allan Mollison who is a member of Tucson Cactus & Botanical Society.

#### HOW PLANTS ARE NAMED

Harrison Yocum, Member of Tucson Cactus & Botanical Society

This special educational feature is concluded in this issue of CHATTER. Editor Shelby again expresses her real gratifude to our actively participating member, Harrison Yocum, who wrote this long, detailed report for our members. He is Greenhouse Technician with the Environmental Research Laboratory, Institute of Atmospheric Physics, The University of Arizona.

saccharosa-sugar sagittata-arrow-like salpino-trumpet salvi-spreading at right angles sanguinea-blood red saponaria-soap saprosarco-fleshy saxatilis) of rocks scabrosa-rought to the touch scandens-climbing scapho=hollow scapa-scape, stalk schiza-split,cleft sclera-hard, dry scopa-broom, brush scopularum-of cliffs secundi-borne on one side, following, second seleni-moon

semi-half semper-always senilis-aged, old septentrionalis-northern septa-wall, partition seri-silk, with soft silky hairs serpens-snake serpentina-like a snake serrata-saw-toothed along the edge, with the teeth pointing toward the apex or tip. seta-bristle, stiff hair simplex-simple, plain similis-like, resembling sinuata-wavy-margined sipho-siphon sobrina-cousin solena-channeled solitaris-alone speciosz-showy, full of beauty spectabilis-visible, spectacular

4. stricta-narrow and erect S-continued strigosa-with appressed rigid hairs sperma-seed strobili-pine-cone sphaerica-globular, spherical strombo-top (shape of) spicata-spike strongyla-round, circular spina-spine stropho-twisted band spiralis-coiled, spiralled styla-pillar splendens-shining suavenolens-sweet squamosa- scaly squarrosa-thickly crowded and rigid, sub-under, partially sulcata) -grooved, especially with deep with stiff spreading bracts longitudinal furrows sulci) stachys-plant, spike super - higher stella-star superbus-magnificent stena (o)-narrow supra-on top, above
sylvestris-of forests stoma-mouth, pore stramineus-straw-colored sym) - united, with, together strepta (o)-pliant or twisted striata-with longitudinal lines, syn) grooves or ridges tabula-having a flat surface, thryrsi-stalk tigrina-like a tiger table-like tithymal-euphorbia tardo-late tomentosa-wooly, with long, densely tectorum-of roofs matted wooly hairs tectum-roof tenella-tender, delicate torosa-knobby -twisted, full of turns tortis) tenuis-slender tortuosa) tephra-ashy trachy-rough teres-rounded tri-three tereti-cylindrical, terete tricha-hair ternati-in 3's terra-earth, land tropo-form truncata-square at the top, as if cut tessellata-marked into small squares, like a mosaic tuberculata) - with tubercles, full of testuda-tortoise swellings tuberosa) tetra-four tubi-tube, or trumpet-like thele) tumida-swollen thelos) -tubercle, nipple tunicata-of concentric layers, overlapping each other thrinax-fan turbinata-top-shaped thrix-hair V-continued uberi-breast valida-strong, healthy -ulus-Suffix denoting smallness variabilis-changeable, variable umbellata-in umbels variegata-different colors umbra-shade velutina-velvety, with fine silky uncinata-hooked pubescence undata-wavy, undulate venosa-full of veins ungui-claw ventricosa-swollen on one side, inflated uni-one, single venustris-lovely, charming urceolata-urn-shaped verrucosa-warty urens-burning, stinging versi-various ursina-of a bear, a shaggy coat of verticillata-whorled, arranged in circles long spines vera-true, genuine vesper-of the evening vestita-clothed vagans-wandering about vaginata-with a sheath cont'd. page 5.

V-continued.

vexans-annoying
vilis-common, worthless
villosa-shaggy-haired
vini-wine
violacea-violet-colored
viperina-of a viper, viper-like
virens-green
virgata-rod-like, long slender
and straight
viridis-green
virosis-ill-scented, poisonous

viscidis)-sticky, glutinous
viscosa)
vitis-vine
vittatus-longitudinally striped
vivi-life, growing
vulgaris,-ordinary, common
Xxantha-yellow
xera (o) - dry
xipha-sword
xylo-wood

zzebrina-striped like a zebra
zygo-yoke

finis.

#### 1970 YEARLY REPORT OF COMMITTEES

MEMBERSHIP: - 130 persons in Tucson and Green Valley paid membership dues this year.

AFFILIATE ACTIVITIES. Rosa Christensen, Director, by means of correspondence. set up friendly and helpful contacts between Tucson Cactus & Botanical Scriety and: (1) Dr. V. Hrabe, Czechoslovakia. (2) Mr. Osada, Japan. (3) Mr. J. E. Gasca, Venezuela, S.A. (4) Manny Singer, president of Los Angeles Cactus & Succulent Society. (5) Mrs. June Suhm, Kingsville, Texas.

CARL AND WANDA HORST are in process of a correspondence with Dr. V. Hrate of Czechoslovakia. We should hear later the results of their friendly step.

The JAMES A. ROBBINS family was host for several days to Mr. Osada of Japan. They showed him southern Arizona areas of interest to cactus students. Mr. Osada, a 23 year old university graduate, had been traveling in South America and Mexico to see native cacti in their habitats and to collect cactus.

MR. J. B. GASCA, Carascas, Venezuela, S.A., requested of us a list of names and addresses of U.S. cactus growers. Alan Blackburn suggested a list. Josephine Shelby answered Mr. Gasca's letter in Spanish as was requested, if possible.

MANNY SINGER, the newly elected president of the Los Angeles Cactus and Succulent Society, recently sent to us for a sample copy of CACTUS CAPITAL CHATTER. He also asked if CHATTER would exchange subscriptions for Los Angeles' CHRONICLE. CHATTER will.

MRS. JUNE SUHM, kingsville, Texas, read Rosa Christensen's name and our club name in a back issue of "Cactus & Succulent Journal of America". She asked to be sent a sample of CACTUS CAPITAL CHATTER. It was sent to her.

JOYCE TATE, Sunnymead, California, of the National C.S.S., requested help from Tucson for the New Mexico Cactus Society's 1970 Cactus Show held in Albuquerque, N.M. The saguaro, that most popular member of the Cactus Clan, was to be a special exhibit. New Mexico needed for it: saguaro ribs and spines; fruit pods; an owl house (cactus shoe). Alan and Betty Blackburn had plenty of this material around their Open Gate Ranch. So, they volunteered to pack and mail it to New Mexico. Also, Betty added some of her exquisitely preserved saguaro blossoms.

Most recently, our Affiliate Director has received an inquiry from Yuzo Tanaka, Tokyo, Japan, about our Newsletter, CACTUS CAPITAL CHATTER. He requested that a sample copy be sent him. It was sent. Rosa also heard from Bob s Cactus Nook, Birmingham, Alabama. They want to see a sample copy of CHATTER also. They will receive one.

#### 1970 CIRCULATION REPORT OF CACTUS CAPITAL CHATTER

CACTUS CAPITAL CHATTER'S 4 issues of 1970 were mailed as follows: in Tucson: to 90 addresses of members in Tucson and Green Valley; to Men's Garden Club of Tucson; to 4 of the 5 Tucson Public Libraries: Central, Valencia Branch, Wilmot Branch, and G.Freeman Woods Memorial Branch; to S. E. McGregor, Bee Research Laboratory, USDA; to 3 divisions of the University of Arizona: The Library, The Herbarium, Desert Biology Station. In Phoenix: to Desert Botanical Garden. Then, to other cactus societies in 4 states: N.Mex., California--Gates, Majave Desert, San Diego, Los Angeles; Houston, Texas; St. Louis, Mo., Henry Shaw Cactus Society. Also, to 18 out-of-state individual subscribers in 6 states: North Dakota, Ohio, Wisconsin, Texas, California, New Mexico, and to Ghana, Africa. To cactus societies in foreign lands: New Zealand, Australia, Scotland. The total number of copies of CACTUS CAPITAL CHAATER mailed at each quarterly printing equals 130. 26 copies of CACTUS CAPITAL CHATTER, VOL. 5, No. 4, were mailed to as many cactus and succulent affiliated clubs, of all the western states. In this way, all of these organulletizations were fully informed about our CACTUS REFORESTATION PROJECT which was featured in detail in this issue of CHATTER.

For the information of new members: RATES: CACTUS CAPITAL CHATTER is mailed free to paid-up members of Tucson Cactus & Botanical Society. \$1.00 per year to addresses in USA. \$1.50 per year to addresses in foreign lands. Copies of back issues--1965 through 1970 ---- are always available at 20¢ per single copy, 75¢ per set of 1 year's copies. Please make your checks payable to: Tucson Cactus & Botanical Society. See CHATTER editor, Josephine Shelby about this.

MEMBERS, NOTE AND USE: 85722 is the new ZIP CODE NUMBER for our club postal address, which is: Tucson Cactus & Botanical Society, Box 3723, College Station, Tucson, Arizona, 85722.

#### OUR CLUB HISTORY SCRAPBOOK

MEMBERS! ! Have you ever been interested enough to look between the covers of our history scrapbook? If not, WHY NOT? It vividly records and recalls, year by year, the main accomplishments and highlights of programs of Tucson Cactus & Bucculent Society. Betty Blackburn, our 1970 Historian, has added many items to the yearly records for 1968 and 1969 which had not been taken care of fully. Here you will read articles about Tucson Botanical Garden; letters from expresident Halloran and CHATTER editor Shelby; a report on tags needed for collecting cacti; pictures of Tucson's exhibit at the second Men's Garden Club Show; picture of our 1969 Xmas party. A new scrapbook starts the 1970 history record. Here you will find the report of Nancy Clarke's becoming president; pictures of other 1970 officers; Dr. Tuller lecturing; pictures of winners of 1970 Cactus Show at Phoenix; a story of Paul Shaw, former Curator of Plants, Arizona-Sonora Desert Museum, collecting cacti destined for Portugal; our Sun Fair exhibit; our picnic at Pepper Sauce Canyon; letters of interest from CHATTER'S correspondence files; ex-President Halloran's Flag Day activity; feature story from Tucson Citizen about Alan Blackburn. And much more. Allow CHATTER editor to suggest for 1971 that the Club Historian bring our History Scrapbook to every meeting of the club. Let it be announced at every meeting that it is available to members to read to learn about T.C. & B. S. and to enjoy.

ADDENDUM: In a late issue of CACTUS CAPITAL CHATTER in which charter members of Tucson Cactus Club were listed, we inadvertently omitted the name of Wanda (Barrett) Horst. Wanda was well acquainted with Cactus John Haag, founder of our club in 1960. She accepted his invitation to join the organizing group. Today she is among our most actively participating members. ——Editor.

#### ANNUAL REPORT OF T. C. & B. S. LIBRARY FOR 1970

Our total membership equals 125 persons. In 1970, only 20 members checked out books from our library. 20 equals 1/6 of 120. 20 equals 16% of our membership. Our fine little library contains many fine books. They just SIT on the shelves--gathering the dust of the ages since no one wants to read them and the journals. NO ONE, that is, except the 20 interested members mentioned above. Reading is one most excellent way to gain knowledge of cacti and other succulents. Our Library, through it current librarian, gladly accepts donations of books and journals about cacti and the other succulents. Especially needed to complete the Club's set are the Cactus & Succulent Journal of America, 1956 - 1964 inclusive. Location of Library - Nancy Clarke Insurance Agency Office, Hours: 9:00 a.m. - 5:00 p.m., Monday through Friday. Librarian John Robbins recommends that members read from our Library: Cacti by Borg; Cacti for the Amateur by Haselton; Cacti and Succulents by Haage; Succulents for the Amateur by Brown; Cactaceae by Marshall and Bock. --EDITORIAL COMMENT: Let us close our fine little library at once before it becomes buried in the dust of the ages. Let us cease wasting our money on it and accepting expensive gift books from members and friends. You can lead a horse to water, you know, but you cannot force him to drink the water. That is -- let us do this if our fine little Library should be no more used in the immediate future than it has in the total past. Shall we?

#### 1971 OFFICERS OF T. C. & B. S.

These are the officers recently elected for 1971 for Tucson Cactus & Botanical Society: President: Hildegard Nase. Vice President: Harold Scott Thomas.
Recording Secretary: Chester M. Scott. Corresponding Secretary: Mrs. Therese
Murchison. Treasurer: Capt. Maurice Hegarty. Members of the Board of Directors: N. Clarke, A. Mollison, H. Jones. Our annual elections of officers
are likened to injections of "new blood" into T. C. & B. S. programs.

Alta and P. G. Nichols celebrated their 59th wedding anniversary on Nov. 6, 1970. All of their friends and admirers in Tucson Cactus & Botanical Society extend hearty congratulations to them. P. G. Nichols was a close, personal friend of our Cactus John Haag and worked closely with him in founding our cactus club in 1960. We were most pleased to see the Nichols at our November Cactus Show. P. G. recently celebrated the 80th anniversary of his birth, and reports that he is in good health and feeling not any older. We are most happy that Alta reports good progress in recovery from major surgery.

OUR MEMBERS EXHIBIT IN MEN"S GARDEN CLUB SHOW
Tucson Cactus & Botanical Society expresses its appreciation to the Men's
Garden Club of Tucson for inviting our interested members to exhibit at their
Tenth Annual Fall Flower and Garden Show, held on November 14, 15 at the
Zimmerman Buick Show Rooms in Tucson. Carl Horst exhibited 110 plants and received the Award of Appreciation. His plants were a cross section of North
and South American species that included 6 or 7 South American collected specimens. His Pilocereus melanostele of Argentina is rare. He won second place
for his Pedilanthus tithymaloides. Wanda Horst won two firsts for her Parodia
aurelspina and her Euphorbia coerulescens. Mabel Benton won one first and one
second place for two dried arrangements. Harrison Yocum exhibited choice
palms and crotons, representing Tucson Botanical Garden and the Environmental
Research Laboratory of the University of Arizona. He received the Award of

8.
Appreciation. Mrs. Raymond Pegel won two firsts for her Tephrocactus papyrancantha and her Toumeya papyrancantha. Rosa and Anne Christensen, and Alan and Betty Blackburn visited the Show, as did Mr. and Mrs. Harry Yocum.



PAUL SHAW

#### SO LONG, PAUL SHAW !

But not "Farewell!" We know how much you like Arizona and especially Tucson. We hope to be seeing you and your family back in Tucson often. Paul has been a long-time member of Tucson Cactus & Botanical Society. He became Curator of Plants at Arizona-Sonora Desert Museum in 1962 after the death of Cactus John Haag who founded our Cactus Society, and to whose memory we dedicated the Haag Memorial Garden at Desert Museum. At the Museum, Paul was in charge of all botanical operations, including horticulture; collecting and identifying plants; botanical and interpretive labeling; lectures; the planning and execution of exhibits pertaining to botany and plant ecology; use of desert plants in landscaping -- in a demonstration garden co-sponsored by Sunset Magazine of Menlo Park, California; and the co-planning of exhibits showing plant-animal relationships.

Paul supervised the dedicated and hard-working group of our own members in creating our Haag Memorial Garden at Arizona-Sonora Desert Museum. He found time, in his heavy schedule to give educational talks at our meetings and otherwise to participate in our program. Paul and his family departed Tucson last July for Santa Barbara, California where he has accepted a position as Grounds Superintendent of Santa Barbara Botanic Garden in Mission Canyon behind historic Santa Barbara Mission. The flora of California and of the offshore islands are ecologically displayed on 60 acres. Complementing the living botanical display is an active educational program, and an extensive library and herbarium. This is Paul's new address: 2460 Las Canoas Road, Santa Barbara, California, 93105.

BOOK REVIEW: SUCCULENTS AND CACTUS, Lane Books (publisher of Sunset Magazine)

This book is one of the finest that I have seen. It contains so much pertinent, up-to-date information on starting a collection and growing cacti and other succulents. Aside from the fact that some of the recommended landscape succulents (i.e. Echeverias, Kalanchoes, Aeoniums, Euphorbias) are more suited to California's climate, the information this book offers is very applicable to growing cacti in Tucson and Green Valley. To all beginners and amateurs, I recommend this fine book. ----John Robbins, Librarian, T.C.& B.S.

EASY TO GROW BUT NOT COMMONLY SEEN CACTI
Obregonia denegrii Fric, Zivot v. Prirode 1925. This unusual plant hails from
the Valley of Jaumave in the state of Tamaulipas, Mexico. It was originally
discovered by A. V. Fric and Ing. Marcello Castaneada in 1923. In this area
it is abundant on the low limestone hills and flat areas. This plant looks
like an Ariocarpus to which it is related but differs in some respects. The
plants are single or caespitose with fusiform roots and white flowers. This
species is of rather easy cultivation, best grown in a mixture of 1 part sand,
1 part oak leafmold with careful watering if grown in a pot. The white
flowers are freely produced during the summer months. Plants come easily
from seed, in our experience, but are rather slow growing (not quite as slow
as Ariocarpus seedlings). Reference: A Systematic Study of Obregonia

Edward F. Anderson, Vol. XXXX, pp. 101-107, Cactus and Succulent Journal.
----John Robbins, Librarian, T. C. & B. S.