

Garden Checklist

1. Bush berries that have not been pruned yet should be. Remove the canes that bore fruit this year and loosely wind the new growth around the trellis.
2. Shasta daisies are better divided in early spring than now. Simply remove the top growth when they stop blooming.
3. Stake chrysanthemums. Continue feeding them at two-week intervals.
4. Feed and water roses liberally to boost them for fall bloom.
5. Feed and soak established lawns. Prepare seedbeds for new lawns.

Doctor Describes New Device For Operations

A newly-designed metal clip to join blood vessels, veins, or arteries during surgical operations was described recently by an University of Southern California medical school faculty member and Sepulveda Veterans Administration hospital attending surgeon.

Dr. Peter B. Samuels, of Van Nuys, exhibited four sizes of stainless steel clips — approximately 1/2 to 1/8 inch long and 1/8th inch wide — an automatic mechanical loader which looks something like an office stapler, and two adjustable forceps at a meeting of the International Cardiovascular society in Dublin, Ireland.

DR. SAMUELS, who started research development of the surgical clips and accompanying devices in 1954 while a member of the faculty at McGill University medical school in Montreal, Canada, said his method was "dependable, durable and rapid." It can be used in place of or in addition to normal suturing techniques, he said.

He also described his system as simpler and less expensive than Russian devices which are just being introduced in the United States.

Twenty-five operations of laboratory animals in the past two-and-one-half years proved that his two smallest clips are suitable for use on all major blood vessels in the neck, chest, abdomen, and legs, he said. Research is underway on the stapling of plastic arterial grafts in the body.

WITH HIS clips, Dr. Samuels said he could place a graft in the aorta in the chest in seven- and one-half minutes. This operation, using sutures, requires one-half hour under ideal conditions for an expert surgeon and up to one hour for an average surgeon.

A straight opening in a blood vessel can be clipped shut in three-and-one-half minutes instead of the 15 to 20 minutes required for suturing.

In one operation, a kidney was transplanted from the abdominal aorta to common iliac vessels in 50 minutes. This surgery, requiring two end-to-end joinings of small vessels in a relatively cramped space was "a convincing demonstration of the flexibility" of the clips, Dr. Samuels said.

His clips can be used anywhere in the body that a suture can be sewn, Dr. Samuels said.

THE CLIPS are stamped out of a stainless steel strip in a power press. They are oblong in shape and have fine teeth at each end. Clips are dropped one by one, teeth down, into slots in a rack which fits into a mechanical loader. The clips are injected into a forceps which holds them securely until they are snapped into position in the blood vessel wall. The clips do not puncture or tear delicate tissues and will not move once they are put in place.

"The less time it takes a surgeon the better it is for everything concerned," Dr. Samuels said, "because blood flow cannot be resumed until the severed vessels or arteries are joined together."

DR. SAMUELS was assisted in the operative phase of his research by Dr. Charles E. Brown, research associate of

the USC School of Medicine. The work was accomplished in the surgical research laboratory of the Sepulveda V.A. hospital and was supported by U.S. Public Health Service grants.

Amotz Frenkel, a young Israeli engineer in Los Angeles, collaborated in designing the instruments and produced the clips and loaders in his plant. A. L. Huish of the Sepulveda V.A. hospital prepared photographs for the Dublin meeting.

Dr. Samuels studied at New York University and was graduated from Hofstra college, Hempstead, Long Island, in 1944. He earned the M.D. degree from McGill in 1948 and the Master of Science there in 1952. He taught at McGill two years after completing his residency. After serving as chief of general surgery at Fort Ord, Calif., he came to Los Angeles in 1957, entered practice in San Fernando Valley and joined the USC medical faculty.

Adult School Will Open on September 18

Classes in adult education in Torrance will open Monday, Sept. 18, at North High school, South High school and Torrance High school, as well as El Retiro, McMaster and Walterial parks.

Students working toward a high school diploma will register in the Adult Education office, beginning Wednesday, Sept. 6, between the hours of 9 and 11:30 a.m., and 1 and 4:30 p.m. Evening registrations will not begin until Monday, Sept. 18, between the hours of 6:30 and 9:30 p.m. Students not working toward a high school diploma will register with the teachers, in the classroom, during the first three weeks beginning Monday evening, Sept. 18.

The board of education has decreed that this year a tuition fee of \$3 per course, per semester, will be charged each student enrolling in the Torrance Adult Education school for each non-academic subject offered.

Tuition fees will not be charged if the students or classes fall in any of the following categories: (1) Short term (four meetings or less) lecture series classes; (2) Students who are under 21 or over 65 years of age; (3) Foreign born students enrolled in English for the Foreign Born and Citizenship classes for the Foreign Born; (4) Classes required for the purpose of obtaining a high school diploma.

Further details may be obtained from the Adult Education office, FAirfax 8-8080, Ext. 295.



If You Are A Newcomer to Torrance Call DORIS STAMM DA 7-9193

for a visit from Welcome Wagon

The Three Lions LUNCHEON COCKTAILS DINNER Redondo Beach Bl. at Hawthorne Blvd. Spring 2-2539

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Plain facts that sum up your fashion forecast... clothes destined to stay out of your closet and on you! Make the quick move, to Zody's... buy for back-to-school and get more for much less!

A. Imported full fashioned fur blend sweaters. Here, a pullover... available in cardigan and other styles too. Much color! Sizes 34-40. **5.99-6.99 value 3⁷⁷**

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C. Black watch plaid spells 'sharp' here... a wool sheath jumper dress with fringe trim. Petite sizes 5-13. **10.99 value 7⁵⁷**

D. Swinging to school in a wool jumper dress with box pleat torso skirt. Chain and coin belt. In black or grey. Petite sizes 5-13. **8.99 value 5⁷⁷**

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