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North American Official Tells Of Sonic Booms

Raymond H. Rice, vice-president and chief engineer of North American Aviation, Inc., came out this week with an illustrated answer to those "boom-booms" which have been laid at the doorstep of jet pilots flying overhead at supersonic speeds.

And the conclusion drawn by Rice in an article printed in the November issue of Skyline, a magazine published for North American employees, is that the blame for the booms has been placed in the right place. Here's how he explained it.

An airplane flying at sonic speed causes shock waves in the air (figure 1). There are several, the first one being the initial bow wave ahead of the airplane. Others spring from the wing and tail.

Waves Bend
Upon reaching supersonic speed in a dive from high altitude (figure 2), a trailing wave is formed and the shock waves are directed toward the ground. Because the waves "bend" upward under normal atmospheric conditions, they actually will strike the ground at a point beyond the aiming point of the airplane.

As the airplane slows down, the shock waves spring ahead (figure 3), traveling at the speed of the airplane before slowdown. The smaller shock waves are absorbed by the major bow and tail waves as they speed toward the ground.

The "boom" is heard loudest at a point ahead of the aiming point because of the curving of the shock waves. Each big shock wave causes a boom, so often two, and sometimes three are heard, Rice says.

Local Student Attends San Jose State College

Bernard Cosgrove, son of Mrs. M. Cosgrove of Torrance, is among the 7100 students attending San Jose State College, the oldest and largest of California's state colleges. Established in San Francisco in 1857, the college after the great quake and fire of 1906 moved to San Jose and is now in its 96th year.



NEW STRIP . . . Bill Blymer, excavating contractor from Manhattan Beach, levels a parking strip for Civil Air Patrol aircraft at Torrance Airport. The new parking strip will enable the 43rd Squadron, which is based at the local air-

port, to operate more efficiently, according to Elmer S. Arpeltia, public information officer. Blymer donated his time and equipment because of the importance of the search and rescue work being done by the Civil Air Patrol.

Two Democrats Toss Hat in Ring For 46th District Assemblyman

Two potential Democratic assembly candidates dominated the 46th Assembly District political scene this week as district Democrats rounded out final plans for a nominating convention to be held Dec. 6 in Inglewood.

The two, only candidates to announce their intention of seeking official party backing at the forthcoming convention, are Allen K. Jonas, youthful Westchester business man, and George Edward Gordon, El Segundo City councilman and appliance dealer.

More than 700 members of the district's eight Democratic clubs will be eligible to serve as delegates to the convention, which will be held at the Crozier High School auditorium, 151 Grevillea Ave., Inglewood.

The official Democratic candidate for the district assembly post, who will face his Republican competition in elections next year, will be selected by a ma-



SEEK ASSEMBLY NOD . . . In next year's election for the 46th District Assembly post will go either George Edward Gordon, left, or Allen K. Jonas, Democratic officials say. The two men are slated to be voted on by delegates to a Democratic convention to be held in Inglewood on Dec. 6. Gordon is an El Segundo City Councilman; Jonas is a Westchester merchant. Republican Charles Chapel now holds the office and says he will seek re-election.

Notes on Narbonne

Narbonne Students Take Holiday Rest

By ADRIENNE SIDWELL Van Volkenburg, and yours truly. Narbonne's first big dance of the semester was last Friday night after the football game. The dance, jointly sponsored by the Tri-Hi-Y, was held in the Torrance YMCA with the Keynotes, headed by Henry Brink, providing the music. Jim Gallagher reigned over the dance as Mr. Football. There was a big turnout of Narbonne kids there.

Last Friday was the best birthday Shirley Carlson ever had. She was named Blue Jean Day Queen! In addition to that, she was given a beautiful wrist watch by her parents. Shirley's senior attendants were Jackie Zittle and Margie Getz. The Junior High Princess was Judy Lowe. A slumber party was held at Shirley's home with Ruth Armes, Anita Shaheen, Pat Gilbert, Stella Emery, Virginia Connor, Lenore Grems, Donna, Phyllis Hazelbaker, Geanne Spangler, helping the hostess, Shirley, celebrate. The girls reported that they had a wonderful time eating and just gabbing.

Wednesday there was a really beautiful Thanksgiving assembly in the auditorium during fifth period. All the kids enjoyed it.

Last Saturday a group from the Western Avenue Baptist Church ate at Clifton's cafeteria and afterwards attended the Youth for Christ Assembly.

Four cold and hungry "orphans" dropped by Adrienne Sidwell's home last Friday night with only a can of tamales between them. A tamale and fried bean "snack" was quickly downed. The girls, Marie Traunfelder, Marge Cullinan, Laura Tolbert, and Anett Grafe, stayed and gabbed for a while. Marie and Laura stayed overnight.

Peggy Frey (nee Volkenburg) was honored with many lovely gifts at a miscellaneous shower honoring her recent marriage to Kenneth Frey, U. S. Navy. The party was held at Jackie Richmond's home with Shirley Endo, Judy Patterson, Laura Tolbert, Stella Emery, Peggy Jo Cooper, Marie Traunfelder, Lita Cordray, Alice Carpenter, Shirley Martin, Marge Cullinan, Mrs.

Square Dancing Class Draws 96

Almost 100 people turned out for the opening session of the square dance classes, being sponsored in the Civic Auditorium on Tuesday nights by the City Recreation Department. Twelve squares of dancers—96 persons—swung to My Lou and Do Si Do'd through the opening three hours of class work. The group has scheduled a New Year's Square Dance Party to be held at the Auditorium on Wednesday night, Dec. 30. Admission will be free. There is still room for more class members in the group, Recreation Department spokesmen reported.

Seaman Reports Aboard Sub Diagon for Duty

Walter E. Stevens, commissaryman seaman, USN, son of Mr. and Mrs. C. W. Stevens of 4100 Torrance Blvd., has reported aboard the submarine USS Diagon for duty. Walter, the husband of the former Miss Mary J. Ward of Manhattan Beach, is a graduate of Torrance High School.

Tartar Teen Talk

By DORIS POPOVICH
Although this past school week was a short one, it was an active week at Torrance High. Thanksgiving vacation started Thursday, but as all good things come to an end, we go back to school tomorrow.
Last Wednesday afternoon the boys and girls leagues presented aud calls. All the students reported that they were really terrific.
The Torrance High School basketball season got under way last Wednesday afternoon when Torrance played host to Hawthorne High. Our first game turned out to be our first victory. Let's support our basketball team as well as we did our football team.
Next Friday night is the night to see the greatest variety show ever presented by Torrance High School. The show "Blackouts on Review" is full of terrific songs, dances and a lot of fine acts. Don't miss it Dec. 4. There will be a high school performance Thursday afternoon.
The Girls League is sponsoring a slack and pedal-pusher day on Dec. 3. All girls wishing to wear either slacks or pedal pushers must purchase a tag for 10 cents on Saturday. Don't forget to buy your tag, girls, this will be a day of real relaxation.
As the non-time entertainment program at school the student council is playing records at noon over loudspeakers for the student body. Any student wishing to have his or her favorite record played can bring them to the student council room during third period.