

The Evening Concert

KFAC 8-10 p.m.
Presented by the Southern California and Southern Counties Gas Companies

THURSDAY, FEBRUARY 17, 1949
TRISTAN AND ISOLDE—PRELUDE AND LIEBESTOD, by Wagner. Chicago Symphony Orchestra conducted by Arturo Rodzinski (16).
SYMPHONY No. 101 IN D MAJOR (CLOCK), by Haydn. Philharmonic Symphony Orchestra of New York conducted by Arturo Toscanini (26).
A GERMAN REQUIEM, by Brahms. R.C.A. Victor Choral and Orchestra conducted by Robert Shaw (68).

FRIDAY, FEBRUARY 18, 1949
 Weekly Feature Concert—A Night at the Ballet
THE TWO PIGEONS—BALLET; LES INDES GALANTES—BALLET HEROIQUE; THE SPIDER'S BANQUET, by Rousset; **RAYMONDA**, by Glazounov; **ROUSSALKA—BALLET MUSIC**, by Dargomizky.

MONDAY, FEBRUARY 21, 1949
PRELUDE TO THE AFTERNOON OF A FAUN, by Debussy. Boston Symphony Orchestra conducted by Serge Koussevitzky (10).
SYMPHONY IN D MINOR, by Franck. Paris Conservatory Orchestra conducted by Charles Munch (33).
JOSE ITURBI, PIANIST (41).
ARABESQUES No. 1 IN E MAJOR AND No. 2 IN G MAJOR—CLAIR DE LUNE, by Debussy.
FANTASIE IMPROMPTU—WALTZ IN D FLAT—WALTZ IN C SHARP MINOR—MAZURKA IN B FLAT MAJOR—POLONAISE No. 6 IN A FLAT MAJOR, by Chopin.
DANCE OF TERROR AND RITUAL DANCE OF FIRE FROM EL AMOR BRUJO, by Defalla.
MINUET IN G, by Paderewski.
PELLEAS AND MELISANDE—INCIDENTAL MUSIC, by Faure. London Philharmonic Orchestra conducted by Charles Munch (16).
LA VALSE, by Ravel. Paris Conservatory Orchestra conducted by Charles Munch (12).

TUESDAY, FEBRUARY 22, 1949
1812 OVERTURE, by Tchaikovsky. Concertgebouw Orchestra of Amsterdam conducted by Willem Mengelberg (14).
SYMPHONY No. 5 IN E MINOR (NEW WORLD), by Dvorak. Philadelphia Orchestra conducted by Eugene Ormandy (37).
JACQUES THIBAUD, VIOLINIST.
CONCERTO No. 3 IN G MAJOR FOR VIOLIN AND ORCHESTRA (K. 216), by Mozart. Lamoureux Orchestra of Paris conducted by Paul Paray (24).
APPALACHIA—VARIATIONS ON AN OLD OLD SLAVE SONG, by Delius. London Philharmonic Orchestra conducted by Sir Thomas Beecham (38).

WEDNESDAY, FEBRUARY 23, 1949
NABUCCO—OVERTURE, by Verdi. Symphony Orchestra of Turin conducted by Sergio Falloni (8).
SYMPHONY No. 6 IN B MINOR (PASTORAL), by Tchaikovsky. Berlin Philharmonic Orchestra conducted by Wilhelm Furtwangler (47).
ELEKTRA—EXCERPTS, by Richard Strauss. Soloists, Royal Philharmonic Orchestra and Chorus conducted by Sir Thomas Beecham (32).
VALSES NOBLES ET SENTIMENTALES, by Ravel. San Francisco Symphony Orchestra conducted by Pierre Monteux (16).
ROUMANIAN Rhapsody No. 1 IN A MAJOR, by Enesco. Symphony Orchestra conducted by Leopold Stokowski (10).

Musical Masterpieces

KFAC 4-5 p.m. daily
2-5 p.m. Sunday
Presented by the Slavick Jewelry Company

Romeo and Juliet Overture Fantasia—Tchaikovsky. Sir Thomas Beecham and Royal Philharmonic Orchestra
Symphony No. 41 in C Major "Jupiter"—Mozart. Bruno Walter and Philharmonic Symphony Orchestra of New York.
You and You Waltzes from "Die Fledermaus"—Johann Strauss. Frederick Stock and Chicago Symphony Orchestra.

FRIDAY, FEBRUARY 18
The Three Elizabeths—Coates. Eric Coates and National Symphony Orchestra
Graduation Ball Ballet—Johann Strauss-Dorati. Antal Dorati and Dallas Symphony Orchestra
Fairy Tale Suite—Folk Dance Polka—Suk. Frederick Stock and Chicago Symphony Orchestra

SATURDAY, FEBRUARY 19
Colas Breugnon Overture—Kabalevsky. Arturo Toscanini and NBC Symphony Orchestra
Aida Highlights—Verdi Maria Caniglia, soprano
Ebe Stignani, mezzo-soprano
Gino Bechi, baritone
Tullio Serafin and Orchestra of the Opera House, Rome

SUNDAY, FEBRUARY 20
"CONCERT FAVORITES," 2:00-3:00 P.M.
"STAGE MELODIES," 3:00-4:00 P.M.
"MUSICAL MASTERPIECES," 4:00-5:00 P.M.
 The Bronze Horse Overture—Auber. Constant Lambert and London Philharmonic Orchestra
Symphony No. 6 in B Minor "Pathétique", Tchaikovsky. Leopold Stokowski and Hollywood Bowl Symphony Orchestra

MONDAY, FEBRUARY 21
Masquerade—Symphonic Suite—Khatchaturian. Leopold Stokowski and Philharmonic Symphony Orchestra of New York
Concerto in A Minor—Bach. Carl Bamberg and Chamber Orchestra
The Fair Maid of Perth—Bizet. Sir Thomas Beecham and London Philharmonic Orchestra

TUESDAY, FEBRUARY 22
An American Salute—Gould. Arthur Fiedler and Boston "Pops" Orchestra
American Music for Orchestra
Jubilee—Chadwick
Prelude to "Oedipus Tyrannus"—Paine Night Soliloquy—Kennan
The White Peacock—Griffes
Howard Hanson and Eastman-Rochester Symphony Orchestra
Testament of Freedom—Randall Thompson Harvard Glee Club. Serge Koussevitzky and Boston Symphony Orchestra

WEDNESDAY, FEBRUARY 23
The Abduction from the Seraglio Overture—Mozart. Sir Thomas Beecham and London Philharmonic Orchestra
Concerto in D Major—Beethoven. Joseph Szigeti, violinist. Bruno Walter and Philharmonic Symphony Orchestra of New York
Marche Joyeuse—Chabrier. Constant Lambert and London Symphony Orchestra
 By Request

CAMPUS BREWINS

Idle Chatter While I Sit This One Out,
or: To Hell With Caltech Men Who Dance With My Girl!
 You must be having a hell of a time
 Cuddled up to a slide rule
 Or dancing with a logarithm
 Or looking at the moonlight through a prism.
 Really, I can give you better astronomy lessons —
 With gestures.
 You must be having a wonderful time
 Being analytically geometrized
 In terms of stress and strain
 Or being described by sines and cosines or log log tangents.
 Some curves are more than this.
 They even
 Baffle Science.
 You must be having a hell of a time
 Meeting all the relativity
 In quantum and quantum
 Or listening to how much he loves you in the fourth dimension
 When I can take you clear out of this world—
 Without words.

With some two dozen Oxy fems at Mountain Oaks last Saturday night, and comparable masses at the Dabney and Throop-Ricketts Formals, the above epic is apropos. (A Greek word, we should have used it two weeks ago.)
 Our nomination for the Great Greek of the Week goes to Merle Thayne Kealikapu Kwock-Ming Kam, otherwise known as the Mighty Midget. Equipped with everything from sandals on his feet to olive branches in his hair

—with a pink toga rescued from 1947's Greek Play in between—Kam was the sensation of the Scripps Beaux Arts Ball last Saturday night. It was only through force of habit that the costume prize of the evening went to Anne Davis and date. What'll they do when that gal graduates?
Pierre et al
 The Darbs watched openmouthed during their pre-dance dinner as their host, Pierre, downed what seemed to be dozens of Class A Flamers. What talent! Mono-Martini MacKenzie was so stupefied (more than usual) that he upset a tray of hors d'oevers. Hayward announced there would be a band practice at 7:30, whereupon all returned to the startlingly novel Valentine Dance.
 Goerke is to be applauded on those fine, sexy tableaux, and Waters for bringing that fine Oxy gal. Dave Warren has at last found a girl to satisfy his appetites; she invited the gang over to sample a recently baked cake. She also preserves pickles.
 We hate to say it, but Corby was polluted again. We enjoyed watching his exhibition dancing. It's too bad he can't remember what a good time was had.

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NOTES FROM ALL OVER DEPARTMENT

From the Feb. 10 issue of the SCRIPTURE:
 "As ever the discussion of seniors leads us to wonder what's to become of us when we emerge from the great white wall. (We realize this is leaving us open for some nastiness from Caltech.)"
 True, true . . .

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HERE'S ORK-PILOT, JOHNNY LONG, TALKING IT OVER WITH BROADWAY SINGING STAR, SANDRA DEEL.

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Talkin' It Over With The Goon

Want to devote a few lines to day to the two queens of the athletic field—Miriam and Miss McGee. Whatever sport is in season these gals are always ready to lend a helping hand. Last Monday, Miriam sent the boys on the cage squad a fine valentine; when they needed numbers sewed on their jerseys, Miriam did the job. They're at every game of every sport cheering twice as loud as anyone else. Be nice if a few more of our illustrious students could get a little of this enthusiasm we'd be much better off.

Dropped up to the Muir bathtub to watch the local version of Aquacade. It was disappointing. Palmer doesn't look half as good as Eleanor Holmes in one of those French swim-suits. There are so many guys splashing around that two-by four play pen that there's not enough room for the divers to get from the board to the water without hitting three men on the way down. There seems to be plenty of new talent, not only in the way of our new coach, but also in many of the new frosh. Monty will have less drag resistance since he lost enough hair during basketball season so that now his head looks like the top of porpoise.

Should prove to be an interesting evening this Saturday when the Tiger scrap the Bulldogs and

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Beavers, Poets, Bulldogs, Bengals At PCC Saturday

This Saturday night will again be a big night for the local cage fans, with another double-header. In the opener Oxy and Redlands tangle in a game which should be a real thriller. But the Whittier-Caltech tussle should develop into the game of the evening. In their last encounter the Beavers lost by a narrow margin of four points to a highly regarded Poet five.

The Whittier five will be handicapped with the loss of Gene Martin due to scholastic difficulties. But with Gordon Pederson and Bill Moore, the Poets are a pretty fine ball club. The Engineer zone caused the usually fast breaking Poets a lot of trouble; even then Moore, Sayer, and Knowles could pour the ball through the hoop from twenty feet out.

Saltman
For the Beavers, Carl Shy will place a lot in high-scoring Paul Saltman to keep the Engineers in the game.

Lineups:
Whittier Knowles F Bowen
Pederson F Butler
Moore C Saltman
Sayer G Cox
Wardman G Montgomery

the Engineers try to take the measure of the Poets. Whittier lucked through (as some other school whose name I won't mention) last week end and are definitely beatable. The Poets are minus the services of three of their front line men, while only Buckets Bowen is bothered by aches or pains.

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Beaver Sports

Action on Interhouse Front

Hundred Participants Entered In IH Cinder Meet Saturday

A track meet is scheduled for Saturday, but it will probably rain. Nevertheless, most of the houses are assembling teams and hopes. Chuck Norman says that Fleming will take six, and is willing to bet his Fleming Waiter's Union Card on it.

Dash

In the 100 yard dash, Fleming has Madden, Ricketts has McEwing, and Dabney is trying to get Dark-horse Markoff to take a lap. He's afraid he'll get stiff. Madden is also running the 220 against Dabney's Paulsen and Ricketts' Wilcox.

Quarter, Half

Carson will probably take the 440 for the Red. Begg and Greene are trying for the Rowdies. The 880 will be run by Dabney's Merkel, Porizky and Marshall for Ricketts, and Peck and Darling for Fleming.

Relay

In the 880 relay, Ricketts is putting out Wilcox, Greene, Eilenberg and McEwing. Fleming has high hopes for Norman, Hibbard, Carson, and Madden. Dabney will probably send out its quartet in short pants.

The 110 high hurdles might go

Dabney Annexes Softball Title With Undefeated Record

Interhouse softball roared into its third week with Dabney on top. The Green finished its end of the fight with a 1-0 squeak over Blacker last Thursday. Dabney scored in the first, then the pitchers dueled till sundown. This game gives Dabney a first, being unbeaten and untied in four games.

Throop splattered Ricketts in Monday's fray, 2-5. The off-campusites led all the way, showing superior class in both hitting and pitching. The outcome left the Rowdies with a clean no-win slate.

As the season closes, it looks like Throop will take an easy second, but may have ties to contend with. Blacker and Fleming are fighting over third and fourth spots, hoping to move into the tie position for second.

The Standings:

House	Won	Lost
Dabney	4	0
Throop	2	1
Blacker	1	1
Fleming	1	2
Ricketts	0	4

to the Green's Bob Stanaway. The other houses are asking for volunteer contenders. Herzig will try the 220 low hurdles for Dabney, against Fleming's Norman.

TYPING
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CALTECH BARBERS
on California Near Lake

Last Second Shot Beats Tech 50-48

Dick Schuster

It's turning out to be an unfortunate season as our Beaver varsity lost their second game in a row by a cat's whisker. This time, or last Friday evening, it was Redlands' guard Harold Waters who pushed through an unconscious field goal in the last second of play to give the Bulldogs their 2 point margin of victory.

The game was much like the Whittier game the week before.

Beaver Ski Men Grab Honors From Oxy, PCC, and USC

For the first meet of the season, the Caltech Ski Team showed up surprisingly well last Saturday, and took first in a four way meet with USC, PCC, and Oxy. Individual honors were taken by Dayton Macdonald of Pasadena City College, but a number of Caltech skiers came in with slightly longer times, so that the overall team time was best.

The members of the home team and the order they placed in the race are: Blouke Carus, Jim Blom, Pete Price, Ollie Gardner, Pete Mason, and last but not least, Dick Schuster. This was Dick's first race, but he showed good spirit, and demonstrated how fast one can learn to ski if there is the desire.

At Big Pines

The race was held at Big Pines, where there is a chair tow. The tow could not handle the crowds, however, and it is not an understatement to say climbing would have been faster than riding the tow. The snow conditions made up for the overcrowded tow, however, being near ideal. Pasadena City College sponsored the meet and so took care of setting the course, starting and timing the racers.

In the next meets we are going to see stiffer competition, but there is a good possibility that by that time our school eligibility rules may be changed so that freshmen can race on the varsity ski team. Because of some good freshman material at Caltech, this means that we may be able to beat UCLA (where they import Norwegian boys), and take the SCISU trophy.

◆We got off to a very slow start, but the Orange and White all but evened the score by half time. The entire second half was nip and tuck.

Bowen High Point

We must mention Ted Bowen right now for his beautiful play. He couldn't miss and led the scoring for the evening with 18 points. His nice defense was apparently not hampered by the fact that he again suffered a bad sprain when he went for a loose ball late in the game. He was followed in high point honors by Kreutzberg, the Redlands center.

Redlands Zone

The biggest thorn for Tech was the zone defense employed by Redlands. It kept our defense fairly well bottled up, especially at the beginning of the game. We couldn't seem to get the ball fed into Saltman. The fray was very tight and slow at the start, with the Bulldogs slowly pulling away to a nine point lead midway in the first half. Then our varsity seemed to come to life, and they steadily pulled up to put the tally at 22 to 24 at half time—in Redlands' favor.

With 10 minutes left they held a 6 point advantage. Sparked by Bowen and Art Bruington we narrowed the gap, and with one minute left, Bru knotted it at 48 all. The play had steadily picked up all the while, and the game was now going at break-neck speed. With 5 minutes to go Butler went out on fouls, and the Goon followed when the clock read 45 seconds.

In those last seconds we had two chances at field goals which were badly messed up. Redlands in turn had two free throws, both of which they missed. Then, with an overtime game a certainty to the spectators, and as the final whistle actually was sounding, Waters swished through his winning basket. What a tough one!!!

Bru, Bullet Bill Cox, and the Goon followed Bowen in our scoring with 9, 8, and 7 points in that order. The boys played a fine game, and much credit should be forthcoming in spite of their defeat.

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DU PONT Digest
For Students of Science and Engineering

The story of A CHEMICAL ACHIEVEMENT

How Du Pont scientists found a way to Moistureproof Cellophane

There's no secret to Du Pont's successful system for making chemical discoveries. It is simply research through teamwork.

As each new problem in research arises, it is tackled by men and women whose training and skill qualify them to master it. Backed by ample funds and facilities, they are continuously extending the field of scientific knowledge.

Take the case of moistureproof Cellophane. Plain, transparent Cellophane was strong, clear and protective. As a packaging material it had eye appeal. Its uses were limited, however. Perishable foods wrapped in this cellulose film were protected from contamination and were good to look at, but they did not retain their freshness. They either lost or absorbed moisture, depending on the nature of the food and atmospheric conditions.

That was a challenge to Du Pont research people. They set out to find materials that would moistureproof Cellophane without materially affecting its thinness or transparency. After developing a basic test to meas-



Dr. Hale Charch, Ph.D., Ohio State '23, re-enacts discovery of moistureproof Cellophane film. Bag at far right held water for weeks; other control bags showed evaporation.

ure moistureproofness, they tried various procedures—adding ingredients to Cellophane dope before casting, impregnating sheets in baths and coating the film.

Coating showed the most promise. Had you been a member of the research team on this job, you might have helped mix and test several hundred different coating formulae over a 10 months' period. With successful coatings in sight, a small pilot operation was set up. Then—to make sure the new Cellophane was right—doughnuts, cookies and cakes were wrapped in it and sent to market. Finally, engineers were called on to design machinery for full-scale operation.

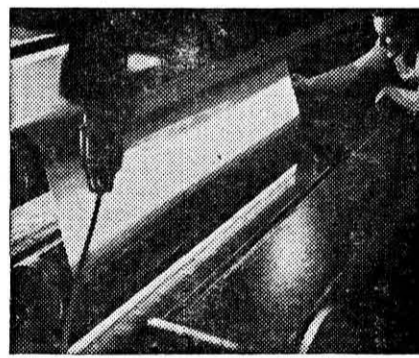
Now everything from chewing gum to porterhouse steaks is being sold in moistureproof Cellophane. Another scientific achievement is helping change the food packaging and food buying habits of America!

Using your training at Du Pont

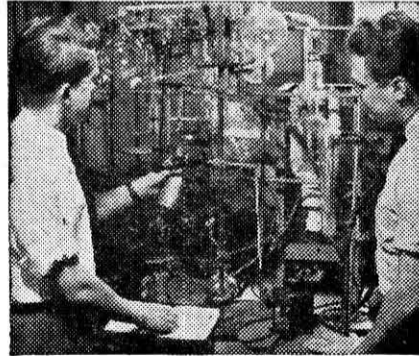
Diverse problems call for diversified talents. At any one time, there are hundreds of interesting projects under way in the Du Pont laboratories. You may be trained in chemistry, engineering or physics. You may have studied in the fields of botany, entomology, parasitology, pharma-



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Organic Chemist M. L. Ward, Ph.D., Illinois '42, and Physical Chemist P. E. Rouse, Jr., Ph.D., Illinois '41, conducting research on the permeability of thin membranes, including Cellophane.

cology or plant pathology. In fact, almost all the sciences are put to use at Du Pont.

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WRITE TODAY for "The Du Pont Company and the College Graduate"

Y's Doings
By Vern Edwards

It's good news in the Y office this week and rightly so. At the last count before the writing of this column our Y drive, which officially ended last Friday, was within \$100 of reaching its goal. However, all receipts were not yet in and there is every reason to believe that we will go over the top.

Special credit can well be given to Harry Begg who worked long and hard on the preparations for the drive and Kent Stratton who handled all of the publicity.

It is especially encouraging that we received the help we did from over 125 student solicitors. We realize the very important part they played in making the drive a success and we are certainly grateful for their aid.

It is also heartening to know that the Y may now continue with its program on a sound financial basis.

But perhaps the most significant result of the drive was that by their generous contributions, the students and faculty and employees of the Institute gave their overall endorsement to the program that the Y is carrying out on the campus.

Speaking for the Y, I would certainly say that the success of the drive is accompanied with a definite feeling of encouragement and a sense of responsibility on the part of those actively engaged in the programming of

Frosh Sports Roundup
By Leon Michaelson

Undeclared Redlands played host to the Caltech Frosh last Friday night and in a manner unbefitting current etiquette dealt us an impressive 51 to 35 defeat. It was the Bullpups' night after they passed the Techmen who had held them to a 11 to 11 score with five minutes to play in the first half.

Much to Coach Preisler's dismay, the lineup was lacking the names of Snider, Tautz, Grey and Granger, although Granger and Grey are expected to be back in uniform for this week's game, Snider and perhaps Tautz will be out for the remainder of the season. What next?

Harry Patapoff put on his usual impressive show to the tune of 18 points for the evening, leading both teams. For those of you who haven't seen Harry's "flyin' low" lay-in show, that's sure to draw two points or a foul, we assure you that it would be very worthwhile. Stay in there Patapoff, but please, don't give the refs such a hard time.

The Frosh five, more complete, meet Whittier at the Oxy gym next Friday at 9:00 p.m. Promising to be spiced by the Poets desire for revenge of the 68 to 53 setback handed them by the Beavers a couple of weeks ago, the contest is sure to be well worth seeing. See ya there!

the Y.
Thanks again for your wonderful support.

CAMPUS BREWINS
(Continued from Page 2)

seldom leaves.

Immorality

While the rest of Tech danced formally, Fleming and Blacker indulged in their chosen form of substitution, a Barn Dance. The crew race was tres exciting—Fleming won the decision. The Flamers came out a tie, with Tall, Dark and Cuse tying Jack Moffat in Class A. Haynes, Cur-ray, Drury, and Hammond were less successful.

Bruington, after bleeding about not being able to find a woman

ORIENTATION

(Continued from Page 1)

signed to show the students what the engineering professions offer to them. Professor Lindvall, chairman of the Division of Engineering and Aeronautics, will speak on "The Engineering Profession as a Vocational Choice" Monday, February 28.

To round out the lectures, the sciences will be represented Monday, March 7, by Professor Carl Niemann. Prof. Niemann will speak on "The Sciences as a Vocational Choice."

Found a widdo wabbit,
Called him Jim;
Got eighteen more—
Her weren't no him.

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4-DAY LAUNDRY
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all week, showed up smirking over a fine specimen. Pot Belly Gage and Karzas tried their palates on the crew race for the first time; we already observed who won. Of course, Jim Hendrickson was in great form; we thought his girl very sweet. Definitely, Type Barn Dance, With Fuel Tank, Large.

Morrison and Hartung had a harrowing experience. Navigation to Fleming was accomplished, but under Walt's directions, John seems to have confused the location of his closet with the Alley 2 head. Ah, to be young again. There were a number of Fleming stags around, also Brad Houser, hoping to repeat last week's performance.

Matzner reports finding a woman with common interests, (uh huh). Eschner is smiling this week. His partner in the demonstration of proper dancing stances is a gem from last month's Post Card Exchange.

Selfless Devotion

Blacker's new RA has been giving the Caltech Players the

word on European accents for "Maid in the Iceplant." Every Sunday evening he devotes several hours to watching the local thespians. We reject the possibility of that happy accretion of protoplasm, Miss Murphy, being in the least responsible.

CES SPEAKERS

(Continued from Page 1)

"Career". His realistic and interesting point of view combined with his speaking ability should make this meeting worthwhile to everyone, and all interested are cordially invited to attend.

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