THE BOOK OF KNOWLEDGE

SKETCHES BY BESSEY SYNOPSIS BY BRAUCHER

Old shells from the sea, dug out of rubbish mounds, tell of ancient man and the sea food he ate. A late Roman writer, Suetonius, says the desire for pearls was what really took Caesar and his legions to Britain. A breastplate adorned with pearls was among the spoils Caesar took back to Rome to hang in the Temple of Victory.

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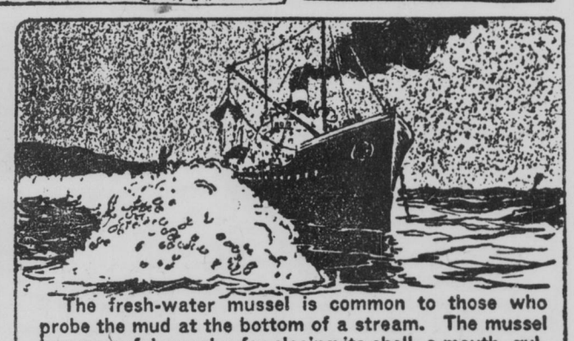
Strictly speaking there is no such thing as a shellfish, the creatures, living in shells being Crustaceans, such as crabs, or Molluscs.

In the Mollusc family are oysters, mussels, whelks, snails, slugs, octopuses and the giant squids, to the number of 40,000 species.



The fresh-water mussel is common to those who probe the mud at the bottom of a stream. The mussel has powerful muscles for closing its shell, a mouth, gullet, stomach, but no head. Mussels spin a glossy, silk-like string which is used as an anchor. Engineers throw live mussels on the breakwater at Cherbourg, France, to knit the parts of the structure together.

Sketches and Synopses, Copyright, 1928, The Grolier Society. (To Be Continued) 29

OUT OUR WAY

—By Williams

OUR BOARDING HOUSE

—By Ahern

BOOTS AND HER BUDDIES

—By Martin

FRECKLES AND HIS FRIENDS

—By Blosser

WASHINGTON TUBBS II

—By Crane

SALESMAN SAM

—BY Small

MOM'N POP

—By Taylor

Fishing The Air

BY G. SHUBERT FRYE

All references are Central Standard Time

"CAVALLERIA RUSTICANA," the one-act opera, will be presented in customary tabloid form by the National Grand Opera ensemble through the NBC Red network from WEAF, New York, at 9:30 tonight. The production will be directed by Cesare Sodero with well known soloists in the title roles.

The time of the scene of the opera is Easter Day and its setting a Sicilian village. "Cavalleria Rusticana" (Rustic Chivalry) is a short story of swift action and tense emotion, of passion, betrayal and retribution. It is one of the best libretos of all time, and it inspired the composer to his only notable achievement.

Stations broadcasting this production are listed in Dial Twisters.

Three of Victor Herbert's operettas will be brought back to the memory of the radio audience in the Kolster Radio hour, to be broadcast by the Columbia Broadcasting system, headed by WOR New York, as key station, at 8 tonight. In this program the Kolster Radio Symphony Orchestra will support the contralto and bass soloists, the male quartet and a group of instrumentalists, including a violinist and cellist.

The complete program is as follows:

Selections from "Babes in Toyland"....Herbert
Kolster Radio Symphony Orchestra
"A Song of India".....Rinsky-Korsakoff
Kolster Radio Contralto
"Moment Musicale".....Schubert
Kolster Radio Symphony Orchestra
"Gypsy Love Song" from "The Fortune Teller".....Herbert
Kolster Radio Bass and Orchestra
"Parade of the Wooden Soldiers"...Jessel
Kolster Radio Symphony Orchestra
Meditation from "Thais".....Massenet
Kolster radio violinist
"By the Sea".....Schubert
Kolster Radio Male Quartet
"Kashmiri Song" from "Indian Love Lyrics".....Woodforde-Finden
Kolster radio tenor
"Flight of the Bumblebee".....Rimsky-Korsakoff
Kolster Radio Symphony Orchestra
"None But the Lonely Heart".....Tschaikowsky
Kolster radio contralto with cello obb.
"Canonetta".....d'Ambrosia
Kolster Radio Symphony Orchestra
"Moonbeams" from "The Red Mill".....Herbert
Kolster radio karolers
Kolster Radio Symphony Orchestra

The Columbia chain includes KOIL, Council Bluffs; KMOX, St. Louis; WMAQ, Chicago; WKRC, Cincinnati and WOWO, Ft. Wayne.

The episode selected by Henry Fisk Carlton for portrayal by the National Players, under the direction of Gerald Stopp, through the NBC Red network will be the massacre at the Alamo which occurred March 6, 1836. The half-hour broadcast is one of the series of "Great Moments in History" presented each week.

This exciting episode occurred during the valiant revolt of the Texans from their mother country which gave them the name of the Lone Star State.

Tune in stations listed under WEAF, New York, in Dial Twisters.

KOA, Denver, is to give a Leap Year party on this year's extra day, Feb. 29. It will have a little craziness, a little music, a little drama, a little burlesque—a little of everything to keep listeners interested. And it will be given at 9:15 tonight.

An array of Russian compositions is included in the half-hour broadcast by the Neo-Russian String Quartet during which Jackson Kinsey, baritone, will be the guest soloist, at 7:30 tonight, through the NBC Blue network.

While the selections of the evening do not represent the larger works of the composers included in the broadcast, they are none the less representative of Russia. Two interesting and scholarly bits of the works of Arensky, a pupil of Rimsky-Korsakoff, are included. Tschaikowsky is represented by two vocal solos, the swaggering "Don Juan's Serenade" and the more melancholy "None But a Lonely Heart."

The details of the broadcast are as follows:

"Variations on a Theme".....Arensky
Strings
"Songs Over the Steppes"..Gretchaninoff
Vocal solo, Jackson Kinsey
"Nocturne".....Borodine
Strings
"Don Juan's Serenade".....Tschaikowsky
Vocal solo, Jackson Kinsey
"Glory".....Arensky
Strings
"None But a Lonely Heart"..Tschaikowsky
Vocal solo, Jackson Kinsey

February 29, the day that occurs only once in four years, is to be celebrated with a Leap Year party in the Columbia Phonograph hour to be broadcast at 11 tonight, through the Columbia Broadcasting system headed by WOR, New York City, as key station. This program will present only bachelors.

Among those who enjoy single blessedness, and who will take part in the party, are Don Voorhees, who is leader of the well known dance orchestra which bears his name; Seger Ellis, popular vocalist; Charles Magnante, accordionist; Dale Wimbrow, comedian; Rube Bloom, pianist; Oscar Grogan, tenor. According to Ben Selvin, who has arranged the program, divorces don't count.

A fantasy based on themes from Verdi's opera, "Rigoletto," will be played by the Savory-Plaza Concert Orchestra in a program which will be broadcast through stations associated with the NBC Blue network, at 6 tonight.

The complete program for this broadcast follows:

Suite "L'Arlesienne".....Bizet
"Rigoletto" Fantasy.....Verdi
"L'Amour, Toujours L'Amour".....Friml
"Si Mes Avaient des Ailes".....Hahn
"Catari! Catari".....Cardillo

This program will be heard through WJZ, New York; and WOW, Omaha.

Dial Twisters

Central Standard Time
Meters Given in Parentheses

WFBM (275) INDIANAPOLIS
(Indianapolis Power & Light Co.)
4:00—Time signal, Julius C. Walk & Son.
4:01—Drama, Parker Wheatley and A. J. Borlault.
5:00—Time signal, Julius C. Walk & Son.
5:01—Late news flashes, Indianapolis Times.
5:30—Fire prevention, Horace Carey.
5:50—Studio period, Louise.
6:00—Time signal, Julius C. Walk & Son.
6:01—Lyric theater organ, Ruth Noller.
7:00—Chamber of Commerce message.
7:05—Radio interference talk.
7:30—Wheeler City Mission.
8:30—Time signal, Julius C. Walk & Son.
8:31—Virginia Sweet hour of music.
9:30—Interference Fun Fest.
10:30—Time signal, Julius C. Walk & Son.
10:31—An hour and a half with Charlie Davis and his Columbia Club Orchestra.

WKBF (252) INDIANAPOLIS
(Hoosier Athletic Club)
5:00—Late news bulletins and sports.
7:00—Safety talk, by Lieut. Frank Owen.
7:15—Chambers, Pollard and Demmy, popular entertainers.
7:30—Home lover's hour, courtesy Banner Furniture Company.
9:30—Interference Fun Fest.

—4 o'Clock—
KDKA (325.6) Pittsburgh—Markets.
WEAF (492) New York—Twilight hour.
WOC (374.8) Davenport—Poet's corner.
WJZ (454) New York—Studio program to WRC.

—5 o'Clock—
WEAF (492) New York—Waldorf dinner music to WRC, WCAE, WTAG.
WEBH (365.6) Chicago—Aichanee Club; studio.
WENR (288.3) Chicago—Organ and vocal.
WGES (242) Chicago—News; organ.
WJR (441) Detroit—Goldkette's Ensemble.
WJZ (454) New York—7-11's Band.
WMAQ (447.5) Chicago—Topsy Turvy time.
WNYC (526) New York—Markets; juvenile program.
WOW (508.2) Omaha—Markets.
WWJ (352.7) Detroit—Statler concert.
WSAI (361.2) Cincinnati—Al and Pete; accordion.

—5:30 o'Clock—
WGY (379.5) Schenectady—Farm program.
WGR (303) Buffalo—Two pianos.
WIP (348.6) Philadelphia—Coogan's Orchestra.
WJZ (454) New York—Jeddo Highlanders to WBZ.
WMAK (545) Buffalo—Silver Slipper Orchestra.
WNYC (526) New York—Spanish lessons.
WTIC (535.4) Hartford—Dinner group.
WSM (337) Nashville—Markets; organ; talk.

—6 o'Clock—
CFCA (357) Toronto—Orchestra.
KDKA (315.6) Pittsburgh—U. of P. address.
KFUO (545) St. Louis—Readings.
KFAB (319) Lincoln—Dinner concert.
KYW (526) Chicago—Uncle Bob.
WBAP (499.7) Ft. Worth—The Seven Aces.
WCFL (483.6) Chicago—Labor Federation hour.
WCCO (405) Minneapolis-St. Paul—Civic Association program.
WENR (288.3) Chicago—Tip Top Orchestra.
WEAF (492) New York—Synagogue services.
WHO (535.4) Des Moines—Dinner music.
WJR (441) Detroit—Pioneers; old minstrels.
WJBT (389.4) Chicago—Dinner music.
WJZ (454) New York—Savoy Plaaz Orchestra to WOW.
WJJD (365.6) Mooseheart—Symphony; Victorians.
WLW (428.3) Cincinnati—Cato's Vagabonds.
WLS (345) Chicago—Supperbell program.
WMAQ (447.5) Chicago—Organ; orchestra.
WOR (422.3) Newark—Levitow's Orchestra.
WNRY (326) New York—Operatic duets; instrumental.
WRC (469) Washington—Kitt music hour.
WSAI (361.2) Cincinnati—Miller's Orchestra.

—6:30 o'Clock—
KYW (526) Chicago—Congress Hotel music.
WEAF (492) New York—The Soconyans to WGY, WCSH, WJAR, WTIC, WGR, WTAG, WEEI.
WFLA (517) Clearwater—Scarlet Guards Band.
WJR (441) Detroit—Balladeers.
WJZ (454) New York—Concert orchestra to WOW.
WLS (345) Chicago—Sports; Sherman's program.
WLW (428.3) Cincinnati—Farm talk; orchestra.
WMAK (545) Buffalo—"Graphologist."
WRNY (326) New York—Baritone; violinist.

—7 o'Clock—
CJGC (329.5) London—Markets; studio program.
WBBM (389.4) Chicago—Orchestra; instrumental.
WCCO (405) Minneapolis-St. Paul—Talk; music.
WEAF (492) New York—Great History Moments to WHAS, WOC, WSAI, WEBH, WFAA, KVOO, WLIT, WRC, WWJ, WOW.
WGY (379.5) Schenectady—Remington Band to WMAK, WHAM.
WGN (416) Chicago—Concert.
WHO (535.4) Des Moines—Studio program.
WHO (535.4) Des Moines—Studio program.
WIBO (416) Chicago—Dinner music; "Opera" selections.
WJZ (454) New York—Champion Sparkers to KYW, KDKA, WBZA, WBZ, WJR, WRHM, KWK.
WLS (345) Chicago—Scrap book; entertainers.
WMAQ (447.5) Chicago—Lecture, William E. Dever.
WMBB (252) Chicago—Trianon Ensemble; vocal.
WOR (422.3) Newark—Corby hour.
WSM (337) Nashville—Dinner concert.

—7:30 o'Clock—
KTHS (384.4) Hot Springs—Arlington Orchestra.
KOA (325.9) Denver—Dinner concert.
KFI (468) Los Angeles—Male quartet.
WDAF (370.2) Kansas City—String quintet.
WEAF (492) New York—String quartet to WTAG, KVOO, KSD, WLIT, WOC, WFAA, KPRC, WOW.
WEBH (365.6) Chicago—Edgewater Beach Orchestra.
WGY (379.5) Schenectady—Radio Rollickers.
WHAD (322.4) Louisville—Studio concert.
WHO (535.4) Des Moines—Courtesy program.
WJR (441) Detroit—Eddie Guest, poet.
WJZ (454) New York—Sylvania Foresters to WBZ, WBZA, KYW, KDKA.
WLW (428.3) Cincinnati—Mona Oil Twins.
WMAK (545) Buffalo—Buffalo Symphony Orchestra.
WOR (422.3) Newark—Play "The Mad Bargain."
WRC (469) Washington—Potomac Orchestra.
WSAI (361.2) Cincinnati—Brunswick program.
WTIC (535.4) Hartford—Air frolic.

—8 o'Clock—
KTHS (384.4) Hot Springs—Weems Orchestra.
WCFL (483.6) Chicago—Entertainers; dance orchestra (four hours).
WEAF (492) New York—Ipana Troubadours to WCCO, WCAE, WOC, WCSH, WGR, WWJ, KSD, KYG, WEEI, WRC, WHO, WOW, WLIB, WDAF, WTAM, KVOO, WHAS, WSM, WMC, WSB, WBAP, WTAG, WJAR, WTIC, WSAI, KPRC.
WENR (288.3) Chicago—Vocal; trio.
WFLA (517) Clearwater—Strause Orchestra.
WHN (394.5) New York—Entertainers.
WJZ (454) New York—Variety hour to KDKA, KYW, WBAL, KWK, WJR.
WJJD (365.6) Mooseheart—Mooseheart children.
WLW (428.3) Cincinnati — Instrumental trio.
WLS (345) Chicago—All State hour.
WOR (422.3) Newark—Columbia network, Kolster hour.
WRVA (254) Richmond—Musicians Club.

—8:30 o'Clock—
CFCA (357) Toronto—Parkers Orchestra; organ.
KFI (468) Los Angeles—Orange network, Sunkist Medolists.
KOA (325.9) Denver—"Tell-me-a-story."
WBAP (499.7) Ft. Worth—Studio concert.
WBBM (389.4) Chicago—Entertainers.
WEAF (492) New York—Zipper Orchestra quartet to WEEI, WJAR, WRC, WTAG, WGR, WCSH, WCAE, WGN, KSD, WSAI, WSB, WHO, WFAA, WTAM, WWJ, WCCO, WOC, WSM, WMC, KVOO, WLIT, WDAF, WHAS, WOW, WTIC, WGY, KPRC.
WJR (441) Detroit—Goldkettes Orchestra.
WJJD (365.6) Mooseheart—Musical program.
WMBB (252) Chicago—Popular program.

—9 o'Clock—
CFCA (357) Toronto—Organ.
KOA (325.9) Denver—Schuerman's Orchestra
KDKA (315.6) Pittsburgh—Maytag Ramblers.
KTHS (384.4) Hot Springs—Opera hour.
KFI (468) Los Angeles—KFI Symphonette.
KYW (526) Chicago—Varied program.
WBZ (333) Springfield—Psychology talk; orchestra.
WEBH (365.6) Chicago—Studio program.
WGES (242) Chicago—Maggie and Jiggs.
WHN (394.5) New York—Roseland dance orchestra.
WHT (306) Chicago—Maytag Ramblers.
WJR (441) Detroit—Saxophone group.
WJZ (454) New York—Mediterraneans Dance Band to KWK, WBAL.
WLS (345) Chicago—Women's Choral Club.
WOR (422.3) Newark—Columbia network, Columbia hour.

—9:30 o'Clock—
KJR (348.6) Seattle—Studio program.
KVOO (348.6) Tulsa—Hymn concert.
WCCO (405) Minneapolis-St. Paul—Musical program.
WDAF (370.2) Kansas City—Male quartet.
WENR (288.3) Chicago—Request program.
WEAF (492) New York—Opera "Cavalleria Rusticana" to KSD, WCSH, WLIT, WTAG, WRC, WTIC, WSAI, WCAE, WHO, WHAS, WSM, WSB, WTAM, WGR, WOC, WTMJ.
WGY (379.5) Schenectady—News from "Time."
WHT (306) Chicago—"Your Hour."
WGN (416) Chicago—Song recital.
WJR (441) Detroit—Variety hour.
WJZ (454) New York—Radio Franks.
WLS (345) Chicago—Organ: tenor.
WWJ (352.7) Detroit—Organ.

—10 o'Clock—
CFCA (357) Toronto—Till's Dance Orchestra.
CNRW (405.2) Winnipeg—CNR Shops Band.
KMOX (299.8) St. Louis—Dance music.
KGO (384.4) Oakland—Vaudeville.
WBBM (389.4) Chicago—Dixie Flyer.
WIBO (416) Chicago—Davis Orchestra; organ.
WJZ (454) New York—Slumber Music.
WLW (428.3) Cincinnati—Cato's Vagabounds.
WMAK (545) Buffalo—Dance orchestra.
WQJ (447.5) Chicago—Dance orchestras.
WOR (422.3) Newark—Byers Orchestra.
WFLA (517) Clearwater—Banjo; dance Ramble.

—10:30 o'Clock—
WGN (416) Chicago—The Hoss Race; orchestra.
KYW (526) Chicago—Congress orchestra.
WCCO (405) Minneapolis-St. Paul—Erickson's Orchestra.
WEAF (492) New York—Kemp's Orchestra to WHO, KSD.
WHN (394.5) New York—Silver Slipper orchestra.
WOR (422.3) Newark—Witching hour.
WJR (441) Detroit—Goldkette's Orchestra; organ.
WSAI (361.2) Cincinnati—Theis Orchestra.
WTAM (399.8) Cleveland—Dance music.

—11 o'Clock—
KJR (348.6) Seattle—Studio program.
KFI (468) Los Angeles—Orange network, "The Vagabounds."
KLX (508.2) Oakland—Musical program.
KOA (325.9) Denver—Gonzale's Orchestra.
KPO (422.3) San Francisco—Concert.
WHN (394.5) New York—Frivolity Club.
WJBT (384.4) Chicago—Dance music.
WJJD (365.6) Mooseheart—Studio program.
WLS (345) Chicago—Popular program; dance music.
WLIB (416) Chicago—Vocal; dance and concert orchestras.

—11:30 o'Clock—
WCCO (405) Minneapolis-St. Paul—Organ.
WGES (242) Chicago—Popular program.

—12 o'Clock—
CNRV (291) Vancouver—The Night Caps.
KFI (468) Los Angeles—Concert orchestra.
KGO (384.4) Oakland—Ellis Orchestra; soloists.
KNX (337) Hollywood—Arnheim's Orchestra.
KJR (348.6) Seattle—Vic Meyers Orchestra.
KPO (422.3) San Farncisco—KPO Dance Orchestra.
WEBH (365.6) Chicago—Informal Revue.
WIBO (306) Chicago—D-X program.

Best Daylight Features

—Thursday—

WFBM (275) INDIANAPOLIS
(Indianapolis Power & Light Co.)
Noon—Time signal, Julius C. Walk & Son.
P. M.
12:01—Grain market and New York stock quotations, E-Z Bake Milling Company.
12:15—Livestock market, Indianapolis and Kansas City.
12:20—Lenten service, Roberts Park M. E. Church.
12:40—Lyric organ, Ruth Noller.
1:20—Closing grain market, E-Z Bake Milling Company.
1:30—Physical culture, Indianapolis Life Insurance Company.
2:00—Weather forecast and farm flashes.
2:10—Housekeeper's chat, radio recipes, Edith Gates.
2:20—Personal beauty advice, Boncilla Laboratories.

WKBF (252) INDIANAPOLIS
(Hoosier Athletic Club)
A. M.
10:00—Recipe exchange.
10:15—Brunswick Panatrope, courtesy of Brunswick Shop.
10:30—Livestock and grain market.
10:40—Weather and shippers forecast.
Noon—Burkie Burkette at the Zaring theater organ.

A. M.
9:00—WJZ, New York. Dr. Copeland hour to chain.
10:00—WOW, Omaha. Correct English.
10:15—WEAF, New York. Household Institute to chain.
10:30—WMAQ, Chicago. Overture hour.
P. M.
1:00—WBBM, Chicago—Terrace Garden Orchestra.
2:00—KDKA, Pittsburgh. Musical masterpieces.
2:30—WMAQ, Chicago. Artist recital.
3:00—WBAL, Baltimore. Salon music.
—WEAF, New York. Interviews with Hollywood stars to WRC.
3:45—WMAQ, Chicago—Women's Club.

BANK TO FLOAT LOAN

Merchants National Bank Bids High for $125,000.

Merchants National Bank Tuesday submitted the only bid on the $125,000 city health board temporary loan. City Controller Sterling R. Holt awarded the loan to the bank at 4¾ per cent interest.

It was considered doubtful whether a bank would accept the loan since council passed the ordinance a month before Mayor L. Ert Slack was asked to sign it.

The health board will use the money to meet bills and pay employes until tax money is received in May.

PREDICT BITTER FIGHT IN ESCH CONFIRMATION

Senate Counts Votes in Contest Led by Southerners.

By Times Special

WASHINGTON, Feb. 29.—Votes are being counted in the Senate in anticipation of a stubborn contest of confirmation of John J. Esch, as a member of the Interstate Commerce Commission. A report an Esch will be submitted to the Senate soon by the Committee, which has investigated his qualifications.

The fight against him is being led by Senator W. M. Neely, (Dem.) of West Virginia, and Senators from West Virginia, Kentucky, Tennessee and Virginia, because Esch reversed himself on the famous Lakes Cargo Coal freight rate controversy and gave Pennsylvania and Ohio operators a preference rate.

This group of senators last year prevented the confirmation of Cyrus E. Woods of Pennsylvania, former ambassador to Japan, for membership on the commission. Lake cargo coal was the issue then.

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