



4-HOUR GUN FIGHT PRECEDES ARREST

Crazed Negro, 78, Shot Before Capture.

LEAD SPRAYED FROM HOME

All Neighbors in Range Are Made Targets.

POLICE SURROUND PLACE

Deputy Sheriff Enters Room by Back Door, but is Forced to Fire When Old Man Shoots.

For four hours yesterday afternoon John G. Spillman, negro, and supposed civil war veteran of 78 years, sprayed shots from two high-power rifles and a shotgun from the windows of his home, 4122 Seventy-ninth street Southeast, at all persons coming within range of his vision. There were no casualties until a squad of 20 police and deputy sheriffs, headed by Police Captain Moore and Sheriff Harburt, arrived on the scene shortly after 5 o'clock and stormed the house. Spillman was shot, probably fatally.

Roy Kendall, deputy sheriff, effected the actual capture, shooting off after the old man had emptied one barrel of his shotgun at him and had checked the trigger on a defective shell in the second barrel.

House Entered From Rear.

Kendall entered the house from the rear with Patrolman Rekdahl. Spillman was in a front room. The officers called to him to surrender. His only reply was to come to the doorway and open fire at them with the shotgun. His aim was wild. He dodged back into the room.

Each called to him again without answer. Kendall stepped into the room. Rekdahl immediately behind him. Spillman leveled the shotgun again and pulled the trigger. The shell was defective. At the same moment Kendall fired. The bullet from his .45 entered the old man's body just below the left shoulder, ranged through a lung, broke a collar bone and made its exit through his back below the right shoulder. Spillman dropped.

Spillman Living Alone.

During his ride to the emergency hospital in the patrol wagon Spillman muttered: "I told 'em they'd never take me alive. They have been trying to steal my chickens and kill me ever since last Friday."

Spillman, who had been a character known to many in Portland for a number of years, was living alone in the house. He had been in the neighborhood only a short while.

Walls of the dwelling were riddled with bullets and heaps of ammunition lay on the floors.

Attention was first called to the derangement of the old man shortly after 1 o'clock, when neighbors in the district reported to Police Lieutenant Wade that Spillman had been shooting at them from the windows of his home. With Patrolman Young, Lieutenant Wade went to the vicinity of the house. As soon as Spillman saw the officers, he leveled a rifle and pulled the trigger. The bullet kicked up dust at the officer's feet.

Strategic Retreat Made.

The policemen made a strategic retreat and telephoned the sheriff's office concerning their rights in such a case.

INTRODUCING THE REAL MARY PICKFORD.

If you were the daughter of a poor widow who had to take in sewing and keep roomers to make ends meet, you might feel sorry for yourself and kick against the unequal dispensations of providence. Well, Mary Pickford was, and she didn't, and today she most distinctly is beyond the reach of carping care and the gaunt wolf of want. Not to point a moral, but merely to introduce our Mary to many old friends—

The Sunday editor announces publication of "My Life," Miss Pickford's autobiography, beginning in the big Sunday issue and continuing for ten installments.

You'll appreciate the privilege of roaming with Mary from cheap theater to cheap hotel, never downcast or dismal, until that most auspicious moment when she came to Broadway. Then the world of films, and such success as mortals seldom achieve—a pleasant, profitable success, that carried thousands of friendships with it.

Appearing in THE SUNDAY OREGONIAN Just Five Cents

RICKENBACKER SAFE WHEN PLANE CRASHES

DEATH NARROWLY ESCAPED IN CHEYENNE LANDING.

American Ace May Be Forced to Abandon California-Washington, D. C., Flight for Legion.

CHEYENNE, Wyo., May 26.—Captain Eddie Rickenbacker, American ace, arrived here at 8:45 o'clock tonight on his transcontinental airplane flight, smashed his plane in landing and narrowly escaped death.

As a result, he may be unable to continue his flight to Washington, D. C., he said, unless he can leave here in an air mail plane tomorrow.

When Captain Rickenbacker landed his plane turned over. Nearly 5000 persons saw the landing and rushed to the machine, expecting to find the flyer dead or badly injured.

Rickenbacker crawled out from under the machine and, greeting A. B. Dumphy, superintendent of the air mail field, where the landing was made, said with a smile: "It's nothing."

"Night flyers are enabled to land by means of flaming T's," Mr. Dumphy said, "and the cross on the T is supposed to point with the wind. In this case they did not point in the right direction, through some mistake, and Captain Rickenbacker landed on the off side of the field and his plane ran into the stage road."

Rickenbacker jumped off at 4:05 A. M. today from Redwood City, Cal. Captain Rickenbacker's last flight was made from Rock Springs, Wyo., leaving there at 6:30 o'clock.

He had expected to reach Omaha by 8 o'clock tonight and Washington, D. C., by tomorrow night.

At his hotel he said he expected to be able to announce his plans definitely tomorrow with respect to continuing the flight.

CHICKENS CAUSE STAB

Albert Haverland Killed Following Quarrel.

MARSHFIELD, Or., May 26.—(Special.)—Albert Haverland died today at Lakeport, Curry county, from a knife wound inflicted by P. H. Lawrence yesterday afternoon during a quarrel, said to have been invited by Haverland, when he and his wife went to Lawrence's home to renew a quarrel about the neighborhood chickens.

Haverland had been residing at Lakeport with his family for the last five years. He was between 35 and 40 years of age. He was stabbed with a small knife, according to the reports, after he had attacked Lawrence with a saw he carried with him. Lawrence gave himself up without any attempt to escape after the affair assumed a serious aspect, and is held at Langlois under charge of a constable or a deputy sheriff until the preliminary hearing is held tomorrow. Lawrence and his friends today engaged the services of Tom T. Bennett of Marshfield, state representative, to defend Lawrence.

TRAIN RUNNING TIME CUT

Better Speed Promised in Southern Pacific Schedule.

SACRAMENTO, Cal., May 26.—The running times of two trains, one Portland-San Francisco and one overland train, were ordered reduced, effective June 1, by the Southern Pacific company today. The saving will range from 15 to 40 minutes.

The Lark, leaving both San Francisco and Los Angeles at 7 P. M., will be due at destination at 3:30 instead of 9:45 A. M. The Seashore express, leaving Los Angeles for San Francisco at 4 P. M., will arrive at 8:25 instead of 9:15 A. M.

The San Francisco express, leaving Portland at 7 P. M., will arrive at 7:10 instead of 7:30 A. M.

The San Francisco passenger train, Ogdon to San Francisco, will leave at 11:45 P. M., instead of 12:30 A. M., and will arrive at 8:10 instead of 9:10 A. M.

No stations will be eliminated, the company announced.

SERMONS TO CARRY FAR

Amplifiers to Make Pastor Heard Six Blocks Away.

Dr. W. T. McElveen's sermons during the Rose Festival will be heard by residents within six blocks of the First Congregational church at Park and Madison streets, according to an announcement by the church.

Electric transmitters have been installed in Dr. McElveen's pulpit, and voice amplifiers have been constructed in the church tower. The arrangement is similar to that installed at the capitol when President Harding made his inaugural speech.

The amplifiers also will disseminate the notes sung by the choir. It was said that the new contrivance will make words spoken in an ordinary tone audible for six blocks.

JURIST'S WILL BRIEF ONE

All Disposed Of by Late Chief Justice in 61 Words.

WASHINGTON, D. C., May 26.—The will of Edward Douglass White, former chief justice of the United States, was filed for probate. It was executed June 26, 1915, and contains two sentences, 51 words in all. It reads: "This is my last will. I give, bequeath and devise to my wife, Letitia M. White, in complete and perfect ownership, all my rights and property of every kind and nature, whether real, personal or mixed, wherever situated, appointing her executrix of my estate without bond, and giving her sole and full power."

TRADE PROMOTERS HARDING'S GUESTS

President Confers With Financial Minds.

DINNER QUIETLY ARRANGED

Big Factors in American Business Entertained.

CREDIT ABROAD IS URGED

Executive Seeks Judgment of Experts on Specific Problems Affecting Financial World.

WASHINGTON, D. C., May 26.—A "meeting of best financial minds" has been inaugurated by President Harding and his advisers to consider the nation's industrial outlook, with particular reference to extending further loans of American capital to foreign governments. Some of the most prominent figures in American finance and industry already have given the president the benefit of their judgment on specific problems affecting the financial world, and others are to be called to consult on ways and means to stabilize conditions and hasten "the return to normalcy."

The foundation for discussions on these subjects was laid at a White House dinner last night, the significance and details of which first became known today.

With Secretaries Mellon and Hoover, the president had as his guests J. P. Morgan, Paul Warburg and half a dozen other financiers.

Credit Extensions Urged.

Whether to encourage further loans of private American capital to foreign governments was one question seriously considered, with most of the financiers arguing that such extensions of credit presented the most practicable means to place foreign finances on a sound basis and thus improve American trade.

Several visiting bankers, it was said, expressed concern over the possibility of funds raised in this country by foreign bond issues being used to buy the products of other foreign countries. The belief was advanced that such use of American money would result unfavorably to domestic industry, especially farming.

On the other hand, it was pointed out in some administration quarters today that purchase of Argentine wheat by foreign buyers with money borrowed here, for example, would assist that country's business and the money eventually would find its way back into the United States in trade.

Some Reports Discounted.

Administration officials, however, discounted reports that American money was to be used to any extent in foreign markets by foreign borrowers. Most of the funds to be raised here, it was asserted, would be used to purchase American goods.

(Continued on Page 2, Column 2)

MAN, WOMAN, CHILD HURT IN AUTO CRASH

ONE DRIVER RACING HOME TO SON INJURED IN FALL.

Doctor in Machine When Two Collide—All Victims in Other Car—None Badly Hurt.

A collision of automobiles at East Madison and Thirty-ninth streets about 8 o'clock last night resulted in the injury of Mrs. Harry W. Sitton, 341 East Fifty-seventh street, arm broken and severe bruises; 3-year-old Bobby Greer, shock and bruises; L. L. Looney, 1193 Myrtle street, bruises and fractured pelvis.

L. R. Mills, 58 Lucretia court, while visiting friends at East Madison and Forty-first street, received a telephone call from Mrs. Mills informing him that their small son had fallen from a tree. Accompanied by Dr. Louis A. Shane, he was racing for home when his machine was evidently struck near the left center by the automobile of Harry W. Sitton, which contained all of those injured. The Sitton car overturned, while the Mills car swerved onto the sidewalk, knocking steps from a house and careening back to the street.

Following the accident Mills continued to his home with the physician, returning later to police headquarters, where he was charged with reckless driving and held under \$100 bail. Mrs. Sitton and the Greer boy were taken to the Good Samaritan hospital, while Looney was treated at St. Vincent's. None of the victims were considered seriously injured.

TURKS SENTENCED TO DIE

Uncle of Enver Pasha and Others Are Condemned.

ANGORA, May 26.—(By the Associated Press.)—Hali Pasha, uncle of Enver Pasha, former Turkish war minister, with two bolshevik agents, were condemned to death today by a court martial for conspiring to overthrow the nationalist government headed by Mustapha Kemal Pasha. Three others implicated in the conspiracy escaped.

The nationalist assembly has sent a mission to Tehran to sign a treaty with the new soviet Persian government.

PACIFIC CABLE PROPOSED

Bill for Federal Enterprise Gets Prompt Action in Senate.

WASHINGTON, D. C., May 26.—A bill by Senator Jones, republican, Washington, for federal construction of a Pacific cable to Asiatic ports, including Manila, was referred by the senate committee today by a sub-committee composed of Senators Jones, Fernald, Maine and Edge, New Jersey, republicans, and Fletcher, Florida, and Ransdell, Louisiana, democrats.

DENBY PLANS COAST TRIP

Secretary Expects to Spend Several Weeks in West.

WASHINGTON, D. C., May 26.—Secretary Denby is planning to make a tour of inspection of the naval establishments of the Pacific coast this summer, he said today. He expects to leave Washington late in July and spend several weeks in the west. If time permits he will inspect the Pacific fleet and also go to Honolulu.

WOMAN, MIND BLANK, IS TAKEN OFF TRAIN

SOMEONE'S MOTHER FOUND ILL AND PENILESS.

Amnesia Victim, With Clothes Put On Over Night, Awaits Identification to Continue Trip.

Someone's mother—her mind a blank, ill and penniless, was placed in the care of the matron at police headquarters last night, awaiting identification to enable her to proceed to the end of her journey. The woman appeared to be about 50 years old. She was taken from the California express upon its arrival from San Francisco by an ambulance which answered a telegram from the conductor.

Where the elderly woman boarded the train could not be learned, although Inspector Cahill and Matron Patterson questioned her intensively in an effort to obtain some clew which might lead to a solution of her identity. In answer to questions she replied: "I am confused; I cannot remember."

She thought her name was Milly Black, and that she was on her way from Centralia to Prineville to visit a sister, Mrs. Harry Davis; but as she was taken from a northbound train police believed that she was mistaken in the location and placed little confidence in the names she gave. Her physical condition was an exact parallel to her mental. She seemed to have lost control of all muscles, although the emergency physician could not diagnose the case as one of paralysis.

The theory was indulged that she might have been placed on the train while in her present condition by someone who desired to be rid of her. Police, after an examination of her luggage, said that the usual effects of a traveler were not present. Matron Patterson found that her clothing had been donned over a nightdress. Whether she had made a long journey or had been placed on the train at some point farther north than San Francisco could not be determined. The possibility that she might have suffered a lapse of memory after boarding the train of her own volition was weakened by the fact that no normal woman would undertake a journey of even 24 hours without more preparation, according to Inspector Cahill.

Later, the dentist declared, Mrs. Mahoney asked her husband to leave the room, and as soon as he had withdrawn, she showed the practitioner the jewelry, which she was carrying in a small leather bag. According to the dentist, the bag contained a valuable assortment of gems, and, in addition, the woman wore two valuable brooches under her coat.

One Brooch Star-shaped.

One of the brooches was star-shaped and set with 15 diamonds, and the other was in the shape of a crown, with about the same number of large stones. Each was about the size of a half dollar.

The dentist remembers one plaintive remark that his aged patient made in regard to her comparatively youthful husband.

"Jim is a good boy and treats me kindly," she told the dentist.

Before leaving the office she made an appointment with the dentist to call at his office when she returned from the east, and then—she disappeared. As far as all investigators have been able to learn, no human eye except her husband's has seen her since she left the dentist's office.

EXPORT DUTY RATIFIED

U. S. Goods Entering China to Take 5 Per Cent Ad Valorem Rate.

WASHINGTON, D. C., May 26.—The senate today ratified the treaty between the United States and China confirming the application of a 5 per cent ad valorem rate of duty on imports of American goods into China.

The treaty was negotiated last October by Secretary Colby and Dr. Wellington Koo, Chinese minister to the United States. The 5 per cent ad valorem rate replaces the present specific rates averaging about 3 per cent on American importations into China. It initiated the negotiations on the ground that the present tariff did not provide sufficient revenue.

The senate also ratified abrogation of the sanitary convention of 1903 which had been superseded by the sanitary convention of 1912.

THERE'S AN URGENT CASE WAITING.



\$25,000 IN GEMS GONE WITH BRIDE

Possible Motive to Kill Aged Woman Bared.

HUSBAND IS STILL HELD

Seattle Dentist Says Missing Spouse Carried Jewels.

NOTARY ADDS NEW CLEW

Person Who Delegated Power of Attorney to James Mahoney Declared Not to Be Wife.

SEATTLE, Wash., May 26.—(Special.)—Mrs. Kate Mahoney, aged bride of James E. Mahoney, was carrying \$25,000 worth of jewelry with her when she was last seen in Seattle. This was the information unearthed today by the police, furnishing the first definite clew to the possible murder of the wealthy woman.

The informant, a local dentist, had been shown the gems by the woman when she called at his office on the afternoon of either April 18 or 21, and she had told him that, in addition, she had a \$5000 necklace, which she had left in her safe deposit box.

Possible Motive Bared.

This information gave the police one of their first "real leads" in their investigation into the mysterious disappearance of the woman, and a motive—\$20,000 of jewelry.

The dentist told the police that the woman, accompanied by her husband, the ex-convict who has been lodged in the city jail on a forgery charge, had called on him professionally, announcing that she was leaving for St. Paul. She said that her recently acquired husband would go east with her.

Later, the dentist declared, Mrs. Mahoney asked her husband to leave the room, and as soon as he had withdrawn, she showed the practitioner the jewelry, which she was carrying in a small leather bag. According to the dentist, the bag contained a valuable assortment of gems, and, in addition, the woman wore two valuable brooches under her coat.

WELL DRIVERS FIND GAS

Indications of Oil Also Discovered Near Tillamook.

TILLAMOOK, Or., May 26.—(Special.)—While boring for artesian water at the Whitney sawmill at Garibaldi and in the boiler room, where a fire recently occurred, workers encountered gas and indications of oil.

At the depth of 100 feet there was a flow of salt water, while 300 feet down gas appeared.

INDEX OF TODAY'S NEWS

The Weather. Yesterday's maximum temperature, 60 degrees; minimum, 49 degrees. TODAY'S—Fair and warmer; northwesterly winds. Page 1.

Foreign. Irish unionists win almost 40 seats. Page 3. National. President confers with the financial minds at White House dinner. Page 1. High protective tariff demanded by farmers of west. Page 2. Proposed amendments to federal reserve act viewed with suspicion. Page 3. Railroads efficiently operated, says president of St. Paul system. Page 4. Permanent peace is Harding's hope. Page 4.

Domestic. Shipping board wins over marines union pickets. Page 2. Rickenbacker narrowly escapes death when plane crashes. Page 1. Presbyterians quote Bible for and against women as deacons. Page 4.

Pacific Northwest. \$25,000 in gems seen on aged, missing bride whose murder is suspected. Page 1. No referendum filed on any of recently enacted Oregon measures. Page 13. Launch is burned; two men found dead. Page 1.

Sports. Pacific Coast league results: At Salt Lake 8, Portland 9; at San Francisco 7, Oakland 5; at Los Angeles, Vernon 3, Seattle 2; at Sacramento 2, Los Angeles 3. Page 12. High school trials run off promptly. Page 12. Last of American golfers succumb. Page 12. Carpenter adds to his diet of work. Page 12.

Commercial and Marine. English Hop Merchants' association says hops must be clean picked. Page 21. Wheat breaks at Chicago, with heavy receipts in prospect. Page 21. Post measure on ballot declared misleading. Page 20. Royal motorship brings cargo here. Page 20.

Port bodies take first merger step. Page 20. Portland and Victoria. Page 20. Opal Watters said to be descendant of French royal house of Bourbon. Page 10. Progressive Business Men's club denounces action of German societies. Page 11. Crased negro shot and captured after four-hour gun fight. Page 10. Civil service board takes up appeals. Page 10.

East side left out of fiscal parade. Page 9. Mount Hood loop contract held up pending action of Multnomah county commissioners. Page 1. Willamette gauge shows 22.8 feet. Page 7. Deputy board over on larceny charge. Page 14. School board cuts off funds for dental clinic. Page 8.

Man, woman and child injured in auto crash. Page 1. Spinners of Jackson club predict democratic walkway in 1924. Page 8. Someone's mother, mind blank, ill and penniless, is taken from train. Page 1.

LAUNCH IS BURNED; 2 MEN FOUND DEAD

GASOLINE EXPLOSION IS THOUGHT CAUSE OF TRAGEDY.

Body of One Victim Anchored in Tillamook Bay, Boat Grounds on Mud Flats.

TILLAMOOK, Or., May 26.—(Special.)—The bodies of Lee DeRock and G. B. Loughheed, each about 40, were found near the mud flats of Tillamook bay today near the charred remains of their gasoline launch, the Dorothy May, which had gone ashore and burned to the water's edge. The men had 20 gallons of gasoline on board the launch, and it was believed that this exploded, setting the launch afire.

The men left this city Monday in the launch, having in tow a scow with lumber for Bayocean. Before leaving they took on board the 20 gallons of gasoline. They arrived at Bayocean that night and left later on their return trip. As nothing was heard of the men and the launch, an investigation was begun yesterday, and this morning the launch was found between Bayocean and Dicks Point on the mud flats, burned to the water's edge. The bodies were found near the launch.

It was generally supposed that an explosion occurred on the launch and set it on fire, for a fire was seen burning in that direction from Bayocean. It is thought that the explosion killed DeRock, and Loughheed threw the body overboard, for an anchor was tied to the body and a pike pole indicated the location. This was about 3000 feet from the shore, and it is surmised that Loughheed tried to swim to shore, but failed to do so and was drowned.

Both were married and had families. DeRock operated the ferry between Bayocean and Bay City for a number of years. Loughheed was a logger. Both men's watches had stopped at 3:30. No inquest will be held.

Lumber Dealer is Sentenced for Fraud Conspiracy.

VANCOUVER, B. C., May 26.—J. S. Bancroft, ex-manager of a branch of the Merchants' Bank of Canada here, and Phil Gevurtz, lumber dealer, were found guilty in the assize court here today on a charge of conspiracy to defraud the bank. Bancroft, already under sentence of four years on an earlier charge in the same connection, was sentenced to five years in the penitentiary, and Gevurtz was given four years.

Bancroft was charged with transferring a credit of \$45,000 from the account of a bank customer to Gevurtz's account.

GEVURTZ GETS 4 YEARS

Lumber Dealer is Sentenced for Fraud Conspiracy.

VANCOUVER, B. C., May 26.—J. S. Bancroft, ex-manager of a branch of the Merchants' Bank of Canada here, and Phil Gevurtz, lumber dealer, were found guilty in the assize court here today on a charge of conspiracy to defraud the bank. Bancroft, already under sentence of four years on an earlier charge in the same connection, was sentenced to five years in the penitentiary, and Gevurtz was given four years.

Bancroft was charged with transferring a credit of \$45,000 from the account of a bank customer to Gevurtz's account.

WELL DRIVERS FIND GAS

Indications of Oil Also Discovered Near Tillamook.

TILLAMOOK, Or., May 26.—(Special.)—While boring for artesian water at the Whitney sawmill at Garibaldi and in the boiler room, where a fire recently occurred, workers encountered gas and indications of oil.

At the depth of 100 feet there was a flow of salt water, while 300 feet down gas appeared.

INDEX OF TODAY'S NEWS

The Weather. Yesterday's maximum temperature, 60 degrees; minimum, 49 degrees. TODAY'S—Fair and warmer; northwesterly winds. Page 1.

Foreign. Irish unionists win almost 40 seats. Page 3. National. President confers with the financial minds at White House dinner. Page 1. High protective tariff demanded by farmers of west. Page 2. Proposed amendments to federal reserve act viewed with suspicion. Page 3. Railroads efficiently operated, says president of St. Paul system. Page 4. Permanent peace is Harding's hope. Page 4.

Domestic. Shipping board wins over marines union pickets. Page 2. Rickenbacker narrowly escapes death when plane crashes. Page 1. Presbyterians quote Bible for and against women as deacons. Page 4.

Pacific Northwest. \$25,000 in gems seen on aged, missing bride whose murder is suspected. Page 1. No referendum filed on any of recently enacted Oregon measures. Page 13. Launch is burned; two men found dead. Page 1.

Sports. Pacific Coast league results: At Salt Lake 8, Portland 9; at San Francisco 7, Oakland 5; at Los Angeles, Vernon 3, Seattle 2; at Sacramento 2, Los Angeles 3. Page 12. High school trials run off promptly. Page 12. Last of American golfers succumb. Page 12. Carpenter adds to his diet of work. Page 12.

Commercial and Marine. English Hop Merchants' association says hops must be clean picked. Page 21. Wheat breaks at Chicago, with heavy receipts in prospect. Page 21. Post measure on ballot declared misleading. Page 20. Royal motorship brings cargo here. Page 20.

Port bodies take first merger step. Page 20. Portland and Victoria. Page 20. Opal Watters said to be descendant of French royal house of Bourbon. Page 10. Progressive Business Men's club denounces action of German societies. Page 11. Crased negro shot and captured after four-hour gun fight. Page 10. Civil service board takes up appeals. Page 10.

East side left out of fiscal parade. Page 9. Mount Hood loop contract held up pending action of Multnomah county commissioners. Page 1. Willamette gauge shows 22.8 feet. Page 7. Deputy board over on larceny charge. Page 14. School board cuts off funds for dental clinic. Page 8.

Man, woman and child injured in auto crash. Page 1. Spinners of Jackson club predict democratic walkway in 1924. Page 8. Someone's mother, mind blank, ill and penniless, is taken from train. Page 1.

MOUNT HOOD LOOP CONTRACT HELD UP

Multnomah County Commissioners Blamed.

TIME TO ACT ENDS TODAY

\$407,124 of Road Work and Bridges Is Awarded.

ALSEA SURVEY ORDERED

Bids on \$1,000,000 Bonds and Many Road Projects Are to Be Opened Today.

DOINGS OF STATE HIGHWAY COMMISSION.

Contracts are awarded for 49.21 miles of grading and surfacing