**PROSPERITY FOR A. S. S. M.**

Finance of the Associated Students of the School of Mines, the student organization sponsoring all athletic, social, and other activities not connected with the curriculum, are the most serious problems their members have for years. The A. S. S. M. debts were put under the searchlight by students and faculty, notably Phillipsburg, and Montana Normal, 153 to 0, and Montana Montana 153 to

Professor L. J. Hartzell, pioneer member of the Montana's Junior College Conference with a 60 to 5 victory over the Montana State School of Mines' team, in a game held on Clarke's Field at Butte on November 12. The Saints' championship comes with a scoring record of 528 against 6, for they have previously disposed of the Intermountain Union by 115 to 6, and Montana Normal 133 to 6.

Mounted St. Charles of Helena, won the championship of Montana's Junior College Conference with a 60 to 5 victory over the Montana State School of Mines' team, in a game held on Clarke's Field at Butte on November 12. The Saints' championship comes with a scoring record of 528 against 6, for they have previously disposed of the Intermountain Union by 115 to 6, and Montana Normal 133 to 6.

Route by what looked like an overwheming score, the midget miners lived up to tradition in scoring, and even more so, in the way they made the game a contest. The game was far closer than the score would indicate. In the first quarter, the Saints were held at straight football but scored two touchdowns on long forward passes, while in the same period, the Miners scored forty-nine yards, thirty-five of them through the air.

**NEW MANGANESE PLANT**

By the middle of next January, Butte's latest industry will be functioning. After spending over half a million dollars in equipping the old reduction works at the foot of Montana Street, the Domestic Manganese Products and Development Company, will start producing manganese for the eastern alloy steel industries.

**RESERVE STRENGTH WEARS OUT SCRAPPY MINERS**

Butte ore will be the main source of manganese produced, but other districts, notably Phillipsburg, will figure on the market. Already nearly a million tons of ore have been contracted for.

Among the various machines installed in the old reduction building are two rotary kilns, each eight feet in diameter and 123 feet long. There are also six progressive magnetic separators. Presumably, powdered coal is to be used for fuel as there have been installed several coal pulverizers.

Several students of the school are already working at the plant and no doubt others will follow. Work at the plant should be of much greater interest to our future metallurgical engineers than mucking or pushing a car.
The Acropolis

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DOES TOO MUCH THEORY SPOIL ENGINEERS?

That there is considerable difference of opinion as to what practical work or practice as given students in engineering colleges is apparent from the many statements of professors. A well-qualified man in the engineering professions.

We remember an address given before the Wyoming Society of Engineers last year in which the speaker placed the main part of the subject on the market. According to this civil engineer, who by the way, had not graduated, yet there is an increasing tendency on the part of the colleges to standardize the student into a quasi scientist, rather than a practical engineer.

There can be no doubt but that it is the function of the engineer to apply to practice as given students in engineering colleges is apparent from the many statements of professors. A well-qualified man in the engineering professions.

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FOOTBALL AND ATHLETIC HISTORY

M. S. M.

By Walter T. Scott.

The editors of the "Acropolitan" believe that some review of athletics at the School of Mines will be of interest to readers among the student body and so have asked me to write them an article. I have no doubt that the space allotted me, is not much opportunity to go into detail but to many the bare outlines of facts.

When it comes to telling about the early years of athletics at the School of Mines, the facts are vague at the best. In the past, no one has had time to confer a benefit on the "Acropolitan" and the publicity writers for the State College for the School of Mines athletes. Those of you who have read the files of the Butte Miner, the Anaconda Standard, and the Butte Post and compiling a record complete of all games played since 1903. This seems to be the only way left to ascertain the truth.

Football began on the Hill back in 1903 when the Miners produced a team consisting only of the men in its reserves. The Saints had a second string, as good as their first, while the Miners had little to show. On the first string of midgets wore the Miners, and it netted them three touchdowns in each of the last two periods. Even then the Saints could score over 100 yds. I am writing this in a scrape.

To pick out the stars of the Miners' team would be very hard, as every man who was in the game put up a fierce struggle and gave all he had. St. Charles undoubtedly beat us because they had some reserve, more weight, and more experience. The Miners won a moral victory on account of the fight and pluck which they showed throughout the game, although they lost the score.

The Miners were putting up a fierce struggle when the Miners' team was weak and offered no resistance after the first touchdown in a scrimmage. He was in every play, working as hard as the rest of them for a Miners' victory.

The Lineups.

St. Charles (601), Mon. Mines (6).

Goes Left End. C. Dingman.

McKemie Left Tackle. Pauline.

Nash Left Guard. Ryan.

Heckam Center. Johnson.

Maierle Right Guard. Larsen.

Scherwe Right Tackle. Larsen.

Smith Right End. Bullwinkle.

Good Quarterback. T. Dennis

Gelhausen Left Halfback. Talp.

Berliner Fullback. Rodin.

Rewards and Benefits.

Score by periods:

1903, University 24, Mines 0, second game.
1904, University 3, Mines 0, second game.
1905, University 0, Mines 0, first game.
1906, University 13, Mines 0, second game.
1907, University 14, Mines 0, second game.
1908, University 12, Mines 0, first game.
1909, University 0, Mines 0, first game.
1910, University 8, Mines 0, first game.
1911, University 0, Mines 0, first game.
1912, University 6, Mines 0, first game.
1913, University 0, Mines 0, first game.
1914, University 13, Mines 0, second game.
1915, University 1, Mines 0, first game.
1916, University 0, Mines 0, second game.
1917, University 13, Mines 0, first game.
1918, University 13, Mines 0, first game.
1919, University 0, Mines 0, first game.
1920, University 9, Mines 0, second game.
1921, University 1, Mines 0, first game.
1922, University 7, Mines 0, second game.
1923, University 7, Mines 0, second game.
1924, University 13, Mines 0, first game.
1925, University 12, Mines 0, first game.
1926, University 7, Mines 0, first game.
1927, University 7, Mines 0, second game.

Substitutions: Saints—Truckup, Hess, Swan, Widman, Bank, Hoyt, Whitney, Good, Burwell, Bergottosi (Creighton), head linesman.

Don Noel, a former Mon. Mines student, has been awarded scholarship at the Columbia University School of Mines. When the Miners were M. S. M. Noel was a member of the Anderson-Carlisle Technical Society, and active on the Acropolitan and "M" staffs.

H. F. W.: "And have you ever written any poetry for the 'Lariat'?" Fred: "Well, I have written a few lines of verse."

We "Keep it at Fred, some way it will be a success so that they will pay you for it."

Haley Plans Improved Mill

Mr. M. F. Haley, instructor in Milling, has been working on plans for the enlargement and improvement of the Agricultural Machine Shop at the School. If permitted to go ahead with his plans, Mr. Haley states that the mill will be made over into a machinery shop of the latest type of mill, as well as for research work which, if carried out, will be of real benefit to Montana and the west. At the present time new equipment is badly needed for the work in Senior mill accounts, and the new shop will be ready for the first job of the new year. In view of the recent rapid advance in the field of flotation it is hoped to have an instruction line along that line be provided at the School.

In the interest of their respective companies, Mr. R. J. Spry, of the Dorr Co., and Mr. J. C. Severson, of the House of Wooden, will assist Mr. Haley, who was in charge of the mining exhibits at the Montana State Fair, in any way possible. Mr. Holloway and Mr. Robertson called on Mr. Haley for the purpose of securing his services in regard to some of their claims. Their firm, Mr. Moss, who is quite well known in mining circles, brought in some student with research ability to confer a benefit on the "Acropolis" and the publicity writers for the Montana institutions. In 1917, the Anaconda Standard, and the Butte Miner ends. A rather vague recollection of other scores of the time is that the men on the teams but the coaches, the players, and the players themselves or were donated by some one in town who was personally interested in the School of Mines. The "School of Mines' dutes," meaning not Montana Mines men but all educated engineers.

The Ore Digger team never could count on adequate money to handle athletics satisfactorily. The mon. Mines team would find its own way of support, attending games regularly, selling tickets, and in other ways keep a scrap of money, to enlarge and improve the shop.
**SENIOR NOTES**

Nothing in the last nine weeks has done more to stir the Senior class than the quarterly grades. Had they been final, this might have been a sad story, but such is not the case we hope. The faculty must have had a hunch that a showdown was coming, but few, if any, had the faintest idea how bad it was to be. There are a scene of a terrible fracas when a few of our worthy hot-heads, shot-heads, and horn-heads, had started out and put a stop to our long-standing quarrel. Mr. Boak is greatly interested in education and is also a de-

**JUNIOR NOTES**

Bombs bursting in air! Not real ones, but vaguely insinuating, and explosive weapons of wisdom, threats, and trouble. The conversation in our meeting of late has been so stimulating that it's hard to find words to describe it. There is a scene of a terrible fracas when a few of our worthy hot-heads, shot-heads, and horn-heads, had started out and put a stop to our long-standing quarrel. Mr. Boak is greatly interested in education and is also a de-

**SOPHOMORE NOTES**

Roy Ryan, vice-president of the Sophomore class, strained his back in a scrimmage a few days before the St. Charles game. He was sufficiently improved, however, by the big day, to play a fine game.

Any information as to Nuckol's reason (feminine, of course) for abducting a pink handkerchief will be received gladly by members of the Sophomore Chemistry Class. Last week he appeared flustered in his vest pocket and is still seen another who is still hot under the collar from the effect of a stinging insul-

**FRESH NOTES**

Revelations from the Freshman History class in a recent quiz: Ambela was the first great printing press! Great Overcoats, snits and all accessories for work. The class officers, dancing club representa-

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**BOAK GIVES LECTURE**

The Mines students had the rare treat of listening to Mr. I. I. Boak, of the Modern Woodmen Lodge. During the Woodmen's lecture, delivered by Presi-

**TWO BASKETBALL GAMES PLAYED BY MINES SCRUBS**

Although the official basketball season is not yet open, the Mines' scrub team recently played two very interesting games. The first, on Tuesday afternoon, Nov. 15, was held with the Montana Hardware team. This team is considered one of the best in the city, but the Mines' team could only win by a score of 22 to 16. With a regu-

**AFTER**

When miners pass the pearly gates of the after-life, it's much for you, is he?

Prof. Gilbert: "Oh, so Hofman is too obnoxious. It is alleged that the Perey Lab. has ruined many a French and Irish." E. Perey said, "Italian, Spanish, French and Irish."

Apparently, students of Analytic Geometry are finding their subject of unusual interest. It was only recently that several of them, finding hyperbolae and ellipses too tame, made independent research into the complex curves at the road show "Gay Paree."

Bill Vlasos and "Pokey" Powell have recently been seen working on the new "Pink Kong," a special made for the women's basketball team. They're happy, digging high-grade ore—

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**FROSH NOTES**

Undoubtedly successful was the dance sponsored by the Freshman class, Novem-

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**SPECIAL**

Holiday flavors and combinations in ICE CREAM

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MEDLIN’S PHARMACY

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**THE ACROPOLITAN**

November 28, 1927

Page Four
CO-ED NOTES

At last, after the rest of the school had almost left, the last group of Co-Eds arrived, and it took them about three seconds to give Miss McGregor and their unanimous vote. The rest of the positions were filled as quickly, with no opposition to any of the candidates. Gwen Culbertson was elected the new editor-in-chief, and Mildred Borden was her number for an office.

The next thing on the program was the planning of THE PARTY, a gala event to be held in preparing for the gala event. But the events! Perhaps 'twould be better to skip to the telephone! Hello! Yes, I'm you! Oh, I'm being studious and getting my history for a change. But what did he say? Honest? Well, that's something like what happened to me one time—you know it was when I was going out with Peter, oh, ages ago—can't you imagine it—yes really. My dear, I'm so glad you called—yes see you tomorrow. Goodnight, Darling. This was a beautiful flapper, respectively. The sole conversation in this stunt consisted of the word "Ah," and the many different infections caused much merriment among the spectators. The next (we're not sure of the title) dealt with the wool and winning of the fair princess, portrayed by Jean McGregory, by the handsome prince, who was Gwennie Culbertson all dolled up. The "princess" girl's hair was very well done by Louise Lilly, and the weeping mother by Mildred Richards.

After the acting came a period of boxing, with those girls who hadn't put on a stunt taking part. It was very informal, and greatly enjoyed by everybody not in the ring. And then, a bit more dancing, and the eats. Doughnuts and cider—mmm-mmm!! All too soon it was over. The party had turned out to be good, but the girls went home happy with plans for another, to be given sometime in the future.

A CO-ED STUDIES HISTORY

Discovered, at the rise of the curtain, a beautiful Co-Ed flapper of the Montana State School of Education. Her name is: "Well can you beat that? She's got a date. Oh, oh, it's only with that dashing little boy. How are you?"

First, let's get the background straight. It was in the Engineering Building, the night of Friday, Nov. 11, at 8:30 o'clock. Now for the story. Last night and two-thirty the night before the rest of the school had almost left, the last group of Co-Eds arrived, and it took them about three seconds to give Miss McGregor and their unanimous vote. The rest of the positions were filled as quickly, with no opposition to any of the candidates. Gwen Culbertson was elected the new editor-in-chief, and Mildred Borden was her number for an office.

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B. S. IN GEOLOGICAL ENGINEERING—THEN WHAT?

By Eugene S. Perry.

"And now, having added the subject outlined in this course, you will be given the degree of Geological Engineer." This statement was made by the geology professor, and replied: "Then what?"

"Then what?" How frequently this question is asked by the student who, with his limited range of worldly experience, is forced to choose some course of study which will fit him for the years of later life. Of course most boys and girls know their immediate likes and dislikes. But will these always be the same?

This boy likes the hum of industry. There is a fascination to the throbbing of the large steam locomotive as it rushes by, swaying, vibrating, roiling with smoke and grime. He is almost hypnotized into an ecstasy of joy as he stands in the engine room with the pulsating engines, its whirling spindles. So this boy goes to Bozeman and becomes an electro-mechanical engineer. But, "Then what?"

A boy cares not for the city. A beaver building its dam across a mountain stream is much more interesting to him than the procession of heavily-laden motor trucks, and high-speed cars passing along the concrete highway at the maximum speed of the road. He loves the high pine trees—and that little gray squirrel away out on the end of that branch to which the pine cones are unusually large. He sees that only a part of that hill under this cover of pines was never burned off nor cut over, but that it is covered with a different kind of soil, where the pines do not flourish. This boy loves nature—and all its mysteries. So he goes to Butte and becomes a Geological Engineer. But, "Then what?"

One hundred years ago there were no geologists in America. In fact there was no science of geology as we have it today. A scant 50 years earlier this science lover, Englishmen, Frenchmen, and Germans, and by 1800 it was making its struggle for existence. Fifty years ago the science of geology was tolerated in the larger schools of America. The geologists were considered as teachers because they were really quite harmless with their bag of rocks and small hammer.

But with the coming of modern mining methods, and particularly the development of the great American oil fields, the geologist came into his own. His understanding of what was below the surface, acquired through a study of the rocks at the surface, brought immediate financial return to the operators, and they gladly paid liberally for opinions and conclusions. At present, no large oil company will carry on an operation without a competent geologist drilling without first having had the OK of its geological staff, and the most successful mining companies are those whose development work is guided by geologist advice.

B. S. in G. E.—"Then What?"

In the active field, the graduate may find himself an assistant or a member of a geologic party for some oil company, operating an instrument, or helping in the making of a geologic map of a prospective field. He may go into the office of a mining company, tracing their geological maps, plotting their data, collecting these samples. Or he may become a member of a geological department, such as a State Geological Survey, and as such assist in the construction of field maps, either for governmental or geological, and help in the collection of information which will eventually be given to the people in the form of a bulletin. Another pathway chosen by many geologists is that of teaching. For those who can endure the conflicts of the summer, work is always available, mainly along lines of investigation and mapping. The three summer months of tramping, and the nine winter months of office work during which time the finds of the summer are analyzed, make an excellent and healthful combination.

After graduation, then what? There is always a place for the good man. The first is, a man can not be forced into a profession he does not like. So to the future geologist: If you like the outdoor life, in which you "see birds and running brooks, and sermons in stones," there will be something waiting to attach G. E. to the end of your name.

TWO MORE LECTURES GIVEN

The fourth and fifth lectures given to the students of the Montana State School of Mines under the auspices of the Butte Chamber of Commerce, were held in the chemistry lecture room. The first of these was given on the subject of lead smelting by Mr. B. N. Rickard of the American Smelting and Refining Company's Smelter at East Helena, Montana.

According to Mr. Rickard, the day of haphazard musculature is past. Well-trained men, college men, are rapidly replacing the individual who knows just what is to be done in a routine way. The history of lead smelting in general and the history of Montana lead smelting was given. Mr. Rickard stated that two of the big technical problems confronting lead smelters are the successful and economical treatment of complex ores, and the recovery of valuable by-products.

Mr. W. A. O'Reilly, assistant chief engineer of the A. C. M. gave the fifth lecture on November 16. He spoke on the contract system of paying for labor as practiced by his company. Mr. O'Reilly stated that the company, through its foremen, enters into verbal contracts running for periods of one week with the various men concerned; all supplies being furnished except carbide lamps. If any worker should fail to make on a contract an amount equal to the standard day's pay, he would be paid the standard day's pay anyway. From the lecture one gathered that although results varied with men, mines, mines, places, time of year, and many other factors, considerable information was made available to the company by comparisons of data, which tends to lower the cost of production.

The next lecture will be given on the thirtieth of this month.

HANDBALL TOURNAMENT TO BE HELD

By the time that this paper will be put out, there will probably have been held, a meeting of all handball "sharks" to decide on the handball tournament details for this year.

It has been the custom of past years to hold the tournament at the end of the basketball season in order to give all basketball players an opportunity to also take part in the handball games. It has always been necessary on that account to curtail the number of games so that one or two defeats put an entrant out. This year, however, if every entrant were to play every other entrant, there would be a very large number of games; so large that the singles tourney would extend beyond the end of the basketball season. The basketball players would in this case still have time to enter the tourney and play their required games.

There is considerable new blood among the players this year and it will be interesting to see if H. Halley, Butte, and Frank Waytall try to keep the laurels in the upper classes.

Prof. Perry: Name and distinguish between a member of the order "Reptilia" and the order "Insectora."

Sophomore: Reptilia: example, snake. Insectora: example, louse.

Distinguishing features: a snake crawls on its own belly but a louse is not so particular.
Copper Mining Company is located near the "Milwaukee" station, in the Southwest part of Butte. It is a very up-to-date sampling mill, used by the Company for sampling all ores purchased for smelting at the Anaconda and Great Falls Reduction Works. None of the ores from the mines owned entirely by the Company go through the sampler, although all of the ore from the Emma mine, partly owned by the A. C. M. Co., passes through.

The Washoe employs the Taylor-Brunton Sampling System. All machinery is housed in an up-to-date, fireproof building of steel and concrete. Ore cars are dumped in a steel hopper on the north side of the mill, from which the rock passes over a shaking grizzly, separating the coarse from the fine material, the coarse passing to a Blake crusher, after which it re-joins the fine material which passed through the grizzly. The total material is elevated to the top of the mill by means of a bucket elevator, passing then, through the Brunton sampling machines and rolls, four samplers, and three sets of rolls. Each machine makes a twenty per cent cut of the material which passes through it, so that the final sample from the machines is one hundred-fifty pounds from fifty tons.

Leaving the machines, the sample is further reduced in size, ground to one hundred mesh, and split four ways for chemical analysis. The Juniors found the trip very interesting and instructive, and expressed especial pleasure at the courtesy of the personnel, which they were treated by the Manager of the plant.

A very fine article has been added to the equipment of the School of Mines in the form of a large relief map of the State of Montana.

Another fine article has been added to the equipment of the School of Mines in the form of a large relief map of the State of Montana. The horizontal scale is four miles of terrain to one inch on the western edge as this is the highest part of the state. The elevation is nearly a foot thick at the tail, it has been decided to place below the relief map, a series of smaller paper maps which will take care of the industrial and economic side of geology by indicating the various mining districts and potential fields.

That part of the Junior class studying Metallurgy, made their first field trip of the season on Friday morning, November 18. The class, under the leadership of Professor Gilbert, gathered at the Washoe Sampler at nine o'clock, instead of at school, the whole morning being occupied by the trip. The Washoe Sampler of the Anaconda

The hospitality of the Lockwood is plainly seen by the patronage of the young people from the schools of all the city. The Juniors found the trip very interesting and instructive, and expressed especial pleasure at the courtly manner in which they were treated by the Manager of the plant.

Corry in metallurgy: What are you trying to do?
Prof. Gilbert: I am trying to try out this new system for calculating a zinc slag.

**The Lockwood**

The hospitality of the Lockwood is plainly seen by the patronage of the young people from the schools of all the city.

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**The Melodeon Trio**

Featuring Harry Waters at the Piano

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Mr. William Steewe, class 1910, formerly Assistant Mechanical Engineer with the G. C. M. Smelter at Butte, Montana, has been promoted to the position of Chief Draftsman at the A. C. M. Smelter at Great Falls, Montana.

H. S. Gee, class 1906, has accepted a position as Mill Superintendent at Durango, Mexico.

Ben Adelstein, class 1922, is now registered as a student in the pre-medical course at the State College at Bozeman.

John P. Duling, class 1904, was in Butte recently and spent several hours at the school. At present, Mr. Duling is doing consulting work and is specializing in Mining Management and Mining Organization. His office is in Los Angeles, California.

John F. Duling, class 1910, has been in Europe recently and visiting the historic cities visited by Mr. and Mrs. Walter R. Landwehr, class 1916, who are Foreman of the same mine.

Members of the faculty of the School of Mines were glad to be visited by Mr. and Mrs. T. J. Rigney, Mr. Wilson's parents, recently heard from him and his son was the City of Munich, or Muenchen as it is known in Germany.

The metallurgical division was especially well represented. A full sized converter was there, cut in half and glass placed so that a good cross-section was seen. Instead of molten metal, water was charged and the air bubbles coming up through the water gave the non-technical public some idea of the process. I had a fine opportunity to study all the modern types of electric furnaces, as well were on display, many in actual size, and cut in such a way that the entire workings could be studied. There were also models of new plants, showing the buildings, furnaces, etc., in a comprehensive way. The latest model, costing $10,000, shows the new Krupp steel plant in the Ruhr district. Metallurgy and milling are also shown in a similar and clear, comprehensive manner.

The section on physics and chemistry are also elaborate. In the physics department, as you proceed through the various rooms, you had the opportunity to make all the experiments that are given in a college course. Everything was set up and in order, and directions were given, together with an outline-explanation of the theory involved, as well as the conclusions to be drawn.

In the chemistry department, explanations were also set up, but because of the nature of the subject, these were not as complete as the ones in physics. The laboratories for quantitative analysis and physical and electro-chemistry are all absolutely modern in equipment and apparatus. One interesting display was that of a complete set of all the known chemical elements, all of the known isotopes, as for example, the various kinds of lead with their different atomic weight.

The museum is very large and requires, of course, a number of days to see everything. It is estimated that a walk through all the rooms covers a distance of 19 kilometers, or about 12 miles. And the first time we were there, it took us exactly ten hours to stroll through, for a cursory examination.

My visit to Munich seems to be occupied almost entirely with technical affairs. Besides a visit to the university and the Royal Polytechnicum, where Professor Simons studied, we have also gone to the "Fair." Germany is a great place for fairs and expositions, for all the larger cities hold them annually. Probably the largest ones held are in Munich, every year from May until October. This year they have the "Bavarian Hardwick" fair; an exhibition of the Bavarian industries. The manufacturers of jewelry, "pazellian," glass, furniture, clothing, and all kinds of metal work, machinery and toys are shown. The companies exhibiting their products just move their shops, or sections of their plants to the exposition grounds and produce their articles under public inspection. This is much more interesting than simply putting a lot of things in glass cases and labeling them.

Munich is right at the foot of the Alps, and many of the visitors in the city wear the clothes of Tyrol and the Alps—knee pants, light blue coats, green hats with a feather, and mountain walking sticks. The peasants dress is especially fantastic; their style has not changed in ages.

CARROLL ACQUIRES MINING (Continued from Page One)

...but watch how other smokers are changing to Chesterfield!

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