

Medical School Costs Reach \$2,911 Per Year

Evanston, Ill. (Science Service) - Medical students are spending \$2,911 a year in medical schools across the country. That adds up to \$11,642 for the four-year course, and the student and his family are footing 82 per cent of the bill.

The other 18 per cent comes from medical schools, federal and state governments, and from local banks.

Financial statistics, compiled here for the Association of American Medical Colleges, show that of students receiving doctorates of medicine in 1959, 43 per cent came from families with incomes over \$10,000. Only 14 per cent came from families making less than \$5,000 and the rest came from the middle-income group.

The AAMC reported that the figures demonstrate that lower income families simply cannot provide the amounts of money needed by the student to pay for the costs of his medical education.

"If we are to reach our goal of increasing the number of physicians to meet the nation's health needs, we must draw upon a broader socio-economic base within the population. To do this, financial assistance is necessary."

Whatever the family's ability to help out, four of five medical students worked during the school year or summer vacation or both. Sixteen per cent received no financial aid from their families. But eight per cent managed to earn more than \$6,000 a year. For some, a spouse's income helped make ends meet.

The study revealed that many working students have jobs that have nothing to do with medical education. If such students were given more financial assistance, says the AAMC, they could still work, but could choose a relevant job even if it meant less money.

Coating Increases Strength of Alloys

Washington (Science Service) - Fatigue strengths of steel, magnesium, and copper beryllium alloys are greatly increased when the metals are coated with a one molecule-thick layer of certain organic chemical compounds, research at the National Bureau of Standards has demonstrated.

Environment greatly affects the fatigue strengths of metals. Traces of water and oxygen from the air will cause surface corrosion. Even a slight amount of corrosion will considerably weaken the metal.

The coatings consist of molecules having at least seven carbon atoms in a chain with a "polar group" (a group of atoms having a separation of electric charge) at one end. These molecules tend to pack together with the polar groups attached to the surface of the metal to form the coating which keeps out the oxygen and water molecules.

Scientists View Strains on A-Scale

Cambridge, Eng. (Science Service) - Using an electron transmission microscope and motion picture techniques, research workers here at the University of Cambridge are now able to watch what actually happens to metal foils when they are strained to the breaking point.

Dr. P. B. Hirsch and Prof. A. H. Cottrell, both of Cambridge, have found that structures "virtually down to the atomic scale can be seen for the first time."

They hope the method will enable scientists to understand thoroughly how the engineering properties of solids result from atomic structures. The new technique has been used, for example, to watch what happens when a pure metal is suddenly cooled from high temperatures, to find out how nuclear radiation damages metallic crystal structures, and to follow the arrangements and dislocations that occur when a metal foil is gradually strained to its breaking point.

Car's Bright Lights Proved Unpopular

Syracuse, N.Y. - Leonard F. Daz, 34, parked his car in his driveway and started toward his house.

Out of the darkness came a figure who mumbled something and then punched Daz in the stomach.

Patrolman Carl Kurtz was called to investigate. He learned the blow was struck by a neighbor who said he lost control when Daz raised and lowered his headlight beams, flooding the living room with light.

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SPORT COAT FAVORITES!

Lustrous
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Cotton Cordino sport coat to wear on all casual occasions... new narrow rib weave cotton fabric that washes and needs so little ironing to look sharp. Trim 3-button university model coat, expertly tailored... new continental color tones, Spanish moss or tan in regulars or longs. 36 to 44.

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CORDINO SLACKS**

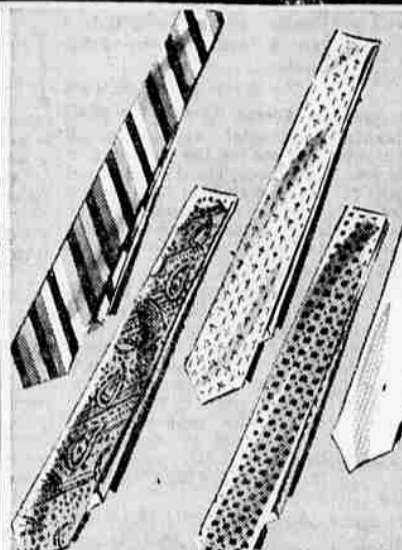
Match your sport coat with Penney Cordino continental slacks... newest narrow weave cotton fabric that machine washes. Tan antelope, spanish moss and black. Sizes 29 to 38. **4⁹⁸**



WASH and WEAR!

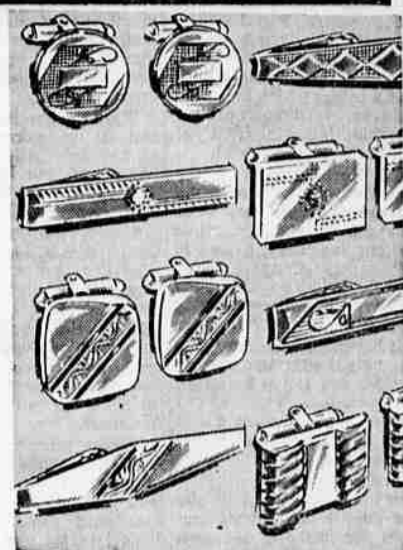
100% PIMA SHIRTS

Carefree Broadcloths! A rich, Sanforized® fabric you can wash 'n wear with little or no ironing! Towncraft® tailored with vented short sleeves, soft short point collar. White. Sizes 14½ to 17. **2⁹⁸**



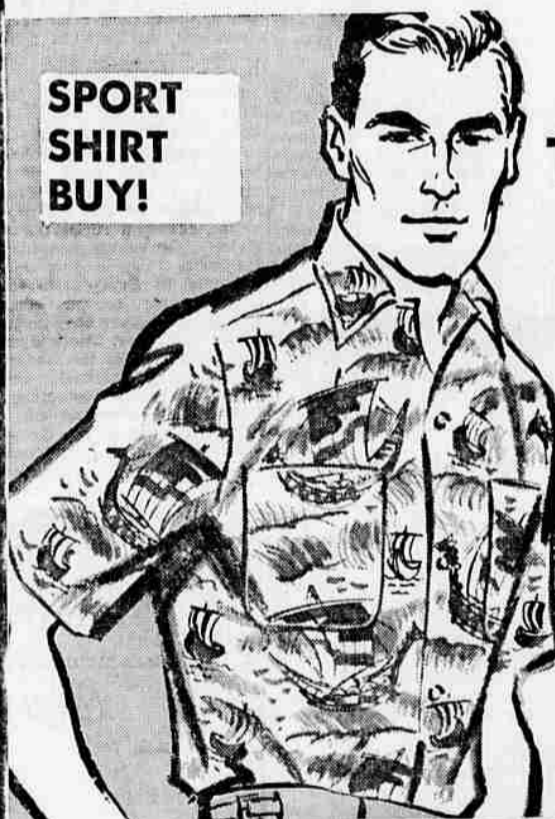
COLORFUL TIES

Fathers like famous Towncraft ties from Penney's! Prints, wovens, solids, stripes, knits, embroideries. New slim styles or regular shapes in newest fabrics including many all silks. **1⁵⁰**



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Find handsome stoneset, engraved and enameled styles in Penney's quality collection. All popular shapes... all made to sell for more. They're gift boxed, too! Plus 10% federal tax.



SPORT SHIRT BUY!

Hand Screened TROPICAL PRINTS

1.98
men's sizes
small, medium,
large, extra large

Not just another sport shirt... but an exciting adventure in colorful casual wear! All the vibrant shades, typical of the South Sea Islands, show up in beautiful hand screened prints. The fabric? Smooth, hi-luster rayon. All tailored with permanent stays, 2 pockets. All hand wash!



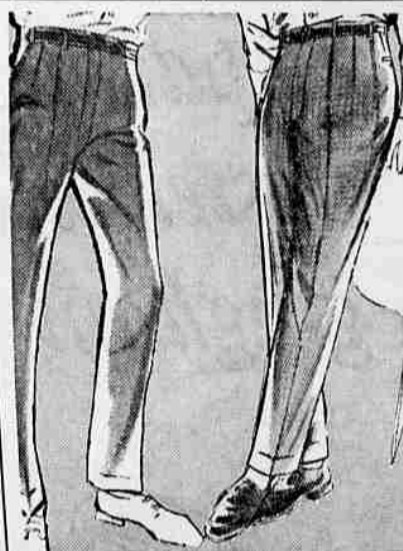
Embroidered Challis SPORT SHIRT BUY!

Rayon challis, caprama rayons, rayon-cotton cupriolis fabrics of rich color 'n luster with eye-catching embroidery on the pocket and collar! Right colors, too... gold, tan, blue, pewter. Fully machine washable. **2⁹⁸**
men's sizes
small, medium,
large, extra
large



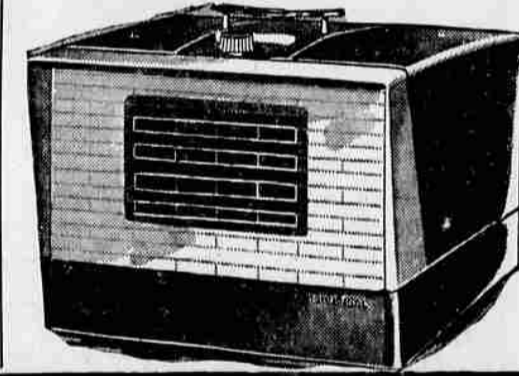
Textured Knit SPORT SHIRTS

Penney's combed cotton knits boast imaginative new weaves... fashion colors, long tails, slit sides, pocket emblem. Find tan, gold, olive, blue, red, more! **2⁹⁸**
small, medium,
large



Wash 'n Wear Easy Care SLACK SPECIAL!

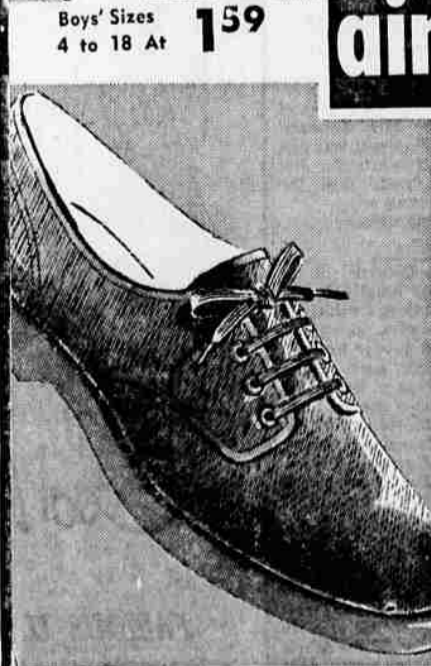
Dacron® polyester and rayon blend slacks are automatic wash 'n wear, little or no iron time savers. Pleated front and cuffs! Charcoal, brown, more! **\$5⁰⁰**
waist sizes
29 to 42
cuffed inseams
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Keep "Pop" Cool... SPECIAL... Large 11-inch Fan.. EVAPORATIVE CHICO AIR COOLERS

You'll be cool and comfortable in a hurry! Terrific portable air coolers need no more electricity to run than a small fan. Powerful single blower cools air rapidly. Aqua-dial regulates coolness. 3-gallon water capacity with water level indicator to let you know when it's running low! Convenient top filling! 19"x19"x13¾". **28⁸⁸**

aim to please POP with gifts from Penney's!



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MEN'S SHOES - PENNEY'S STREET FLOOR

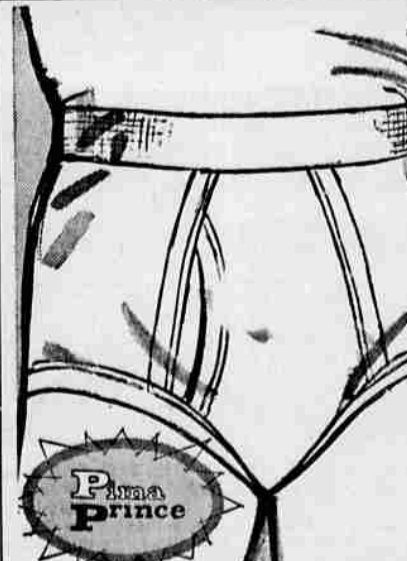


LEATHER SLIPPERS

Wear inside and Out! **4⁴⁹**

These comfortable slippers are perfect for house, car or yard. Side leather tops the cushion crepe soles. Find black, brown! Find a low, low Penney price, too! Sizes 6 to 11 - B and D widths.

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All Pima Cotton in Our Pima Prince Briefs

3 for 2⁹⁵

The SuPima® cotton is extra-strong, extra-luxurious! The quality Penney tailoring is your assurance of a sure, comfortable fit! Mercerized for longer wear!

MEN'S - PENNEY'S STREET FLOOR



Pima Prince T-SHIRTS of 100% Pima Cotton!

3 for 2⁹⁵

SuPima® cotton... exceptionally smooth, luxuriously soft, amazingly strong! Has flat knit, crew neck! Quality Penney tailoring! A solid value at just 2.95 for 3!

MEN'S - PENNEY'S STREET FLOOR



DACRON and COTTON WASHABLE JACKETS

A superb blend of Dacron® Polyester 'n cotton... trim-tailored with smart English type storm collar! Rain repellent, too! Oyster, light blue, antelope, others. **4⁹⁸**

Men's sizes, small, medium, large, extra large.

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