

AMBASSADOR IMPROVING
London, Jan. 13.—David R. Francis, the American ambassador to Russia, who recently underwent an operation, is progressing favorably toward recovery. His condition is said to be so satisfactory to-day that he will be able to leave shortly for the United States.

Plenty of exercise, fresh air, regular hours—is all the prescription you need to avoid influenza—unless through neglect or otherwise, a cold gets you. Then take—at once



Standard cold remedy for 20 years—in tablet form—safe, sure, no opiates—breaks up a cold in 24 hours—relieves grip in 3 days. Money back if fails. The genuine box has a Red top with Mr. Hill's picture. At All Drug Stores.

HOW WEAK, NERVOUS WOMEN QUICKLY GAIN VIGOROUS HEALTH AND STRONG NERVES 7 A DAY FOR 7 DAYS

A Vigorous, Healthy Body, Sparkling Eyes and Health-Colored Cheeks Come in Two Weeks, Says Discoverer of Bio-feren.

World's Grandest Health Builder—Costs Nothing Unless It Gives to Women the Buoyant Health They Long For.

It is safe to say that right here in this city are tens of thousands of weak, nervous, run-down, depressed women who in two weeks' time could make themselves so healthy, so attractive and so keen-minded that they would compel the admiration of all their friends.

The vital health building elements that these despondent women lack are all plentifully supplied in Bio-feren.

Mathematical Sport With Ball and Bat

Why a Swiftly Delivered Ball Flies From the Encounter With the Bat Faster Than a Slow One, and Under What Conditions the Ball Will Bat the Bat.

By GARRETT F. SERVISS
"My friend and I have an argument on which we would like to have light. I claim that a ball will, when hit by the bat, travel farther if it is a swift-pitched ball; he says no, because there is more resistance to overcome if the ball is swift. I base my claim on the fact that a ball thrown against a stone wall will rebound farther the harder it is thrown. Yet there is a paradox here which I wish you would explain. We all know that an object must be brought to a complete stop before it can return on its track; why then does not the ball when stopped by the wall fall down the

side of the wall?—G. A. Anderson, Boston."

Your view of the conduct of the pitched ball hit by a bat is correct; the swift ball is thrown back with greater velocity than the slow ball, the reason being that the elasticity of both the ball and the bat restores a large part of the total momentum possessed by them before their encounter; this restored momentum is shared between the ball and the bat, what is lost by one being gained by the other. If there were no elasticity the ball would not rebound from the bat, and, after the meeting, the two would move together in the same direction with a common velocity.

Applying this to the case of a ball thrown against a wall, we see that it is the elasticity that causes the ball to rebound after its forward motion has been arrested, if neither the ball nor the wall had any elasticity, the ball would drop to the foot of the wall, all its momentum having been turned into invisible vibratory motions of the molecules of both ball and wall, and if the velocity were very high, this molecular motion would appear as sensible heat.

The amusement and instruction that can be got out of a ball and a bat are not limited to the enjoyment so enthusiastically expressed by baseball "fans." If Sir Isaac Newton could have seen an American pitcher and batter in action he would have been fascinated by the brilliant demonstrations they would have afforded him of the truth of his laws of motion.

Let us consider some examples. Suppose the bat weighs ten times as much as the ball, and that the velocity of the ball when it meets the bat is fifty feet per second. Suppose, too, that the batter simply holds out his bat to catch the ball, without striking. Then the velocity of the bat will be 0, or nothing.

Further suppose that the elasticity is sufficient to restore three-fifths of the momentum lost at the moment of impact. This is called the "coefficient of restitution," and may vary according to the substance concerned from 0 to 1. But I would represent perfect elasticity, which is never met with. Now, applying the formulas of analytical mechanics to the problem (any large text-book of physics will give most important of them), we find that after the ball, moving fifty feet per second, has met the motionless bat, weighing ten times the weight of the ball, the latter will, if the impact be direct, rebound toward the pitcher with a velocity of 22.8-11 feet per second, while the bat will be forced backward with a velocity of 7.2-11 feet per second.

Now, to show the effect of altering either the relative velocity or the relative weight of ball and bat (momentum being the product of mass, or weight, multiplied by velocity), let us try several variants of the problem. First keeping the

weights and the velocity of the ball the same, let the batter strike with a velocity of 10 feet per second. In that case the velocity with which the ball will rebound will be 32.8-11 feet per second, while the bat, instead of recoiling, will follow the ball with a velocity of 1.3-11 feet.

Next try the effect of increasing the velocity of the ball while that of the bat remains unchanged. For instance, let the ball meet the bat with a velocity of 60 feet per second, while the bat hits the ball with a velocity, as before, of 10 feet per second. Then, after impact the ball will rebound 41.9-11 feet per second, while the bat will be driven backward 2-11 feet per second.

I feel that at this point some reader will say: "Oh what's all that mathematics to me?" Well, my dear sir, I'll indicate what it ought to be to you and to every other intelligent person. It is the kind of thing that has made modern civilization. The man who can speak a dozen languages, or who has read all the books in all the literatures, is not the man who makes the world go; the man who does make it go is the one who can deal with forces, masses and velocities, because he understands the grammar of nature and reads her books.

Now for one more example. Let us diminish the weight of the bat, while keeping the initial velocities the same as in our first variant of the problem. Call the weight of the ball 1 and that of the bat 5, while the velocity of the ball is 50 and that of the bat 10. Then, after impact the ball will rebound 30 feet per second, while the bat will be pushed back 6 feet per second. But when the bat was twice as heavy, the initial velocities being the same, the ball after impact flew back 37.3-11 feet per second and the bat followed it 1.3-11 feet per second.

The difference shows the effect of halving the weight of the bat. If the latter were cut down to equality with the weight of the ball, the initial velocities remaining as above, then after impact the ball would not rebound, but would go on in its original direction two feet a second, while the bat would be shot backward 8.8 feet per second.

You see what a lot of fun, of a particular variety, the thoughtful man, with his hat drawn over his eyes and a pencil in his hand, can have while his neighbors on the bleachers are making the air hum.

BUENOS AIRES STRIKE TOLL

By Associated Press
Buenos Aires, Jan. 13.—The commanders of the government troops officially report 250 dead and 700 wounded as a result of the strike riots in this city. The ranking naval officer, discussing this report, said: "If you double it, you will be nearer the real casualties."

1,100 MENTIONED ON THREE LISTS OF CASUALTIES

703 Were Severely Wounded; Central Pennsylvanians Are Mentioned

Washington, Jan. 13.—Eleven hundred names are included on the casualty lists issued yesterday and today. Of these, 703 men are wounded severely. A number of Central Pennsylvanians are included in the lists: Wounded Severely 703 Wounded (Degree Undetermined) 113 Killed in Action 32 Died of Disease 69 Died of Wounds 61 Died from Accident and Other Causes 29 Died from Aeroplane Accident 2 Wounded Slightly 2 Total 1,100 The Pennsylvanians mentioned are:

KILLED IN ACTION.
Private.
Michael Adzema, Olyphant.
John S. Conrad, Lancaster.
Thomas Durrick, Philadelphia.
DIED FROM WOUNDS.
Private.
Charles Arnold, Reading.
Harvey Dodson, Altoona.
Anthony Duda, Nanticoke.
James M. Gibson, Danville.
Samuel Grabavolo, Collings.
William Lloyd McElhane, Huzarstown.
Ziegmont Sluckaki, Pittsburgh.
Karlo Bradica, Monessen.
Sherman M. Drum, Cogan Station.
Paul Judy, Hummelstown.
Alfred Semodney, West Liberty.

DIED OF ACCIDENT AND OTHER CAUSES.
Sergeants.
William Cooper, Uniontown.
WOUNDED SEVERELY.
Sergeant.
Charles F. Schaeffer, Womelsdorf.
Homer C. Beadle, Lykens.
Raymond Gorham, Philadelphia.
Lois Flatto, Rothsville.
Ell William Haslam, Carlisle.
Benjamin Franklin Moyer, Palmyra.
Charles F. Mulvehill, Johnstown.
Frank D. Reilly, Reading.
William Straw Hallifax.
WOUNDED (DEGREE UNDETERMINED).
Lieutenant.
James P. McIlhenny, Philadelphia.
MISSING IN ACTION.
Private.
Joseph Oliver, Altoona.
Joseph Stine, Minersville.

KILLED IN ACTION.
Private.
Achille Baruffi, Morgan.
Benjamin Eisenberger, Roscoe.
Ignacy Ratajack, Philadelphia.
Frank Scaella, California.
Walter J. Weigand, Philadelphia.
Michael Adamski, Olyphant.
Joseph Palecki, Pittsburgh.
Joseph R. Rigdon, Scottsville.
William J. Walls, Philadelphia.
DIED OF DISEASE.
Private.
Joseph A. McVey, Philadelphia.
Ellias J. Peel, Jeanetta.
WOUNDED SEVERELY.
Private.
Milton A. Beaumont, Chester.
Caleb B. Cope, Avondale.
William Aloysius Feary, Jermyn.
Cyrus Edward Frye, New Stratton.

Paul Gall, Russellton.
John Gray, McDonald.
John Bernard Hammer, Philadelphia.
Mike Bendis, Belle Vernon.
Jesse Brackenridge, Pittsburgh.
Grover Barr, North Braddock.
Plummer Forbes, New Castle.
Harry Francis Hart, Pittsburgh.
George E. Kelly, Erie.
Harry Z. Kommer, Pittsburgh.
Graspy Vansickle, Markleburg.
Joseph Flynn, Scranton.
Joseph Gustaitis, West Hazleton.
Isaac W. Hawe, Nescopeck.
Frank L. Przywarty, Pittsburgh.
George John Reustle, Phoenixville.
John Rings, Export.
Ralph Wadlow, Pittsburgh.
John Wood, Morrisville.
Mike Mateko, Sharpburg.
John Reink, Cheltenham.
Charles J. Condie, Altoona.
MISSING IN ACTION.
Private.
Joseph U. Border, Disbrow Street, Harrisburg.
Frank Leroy Kline, Wilkes-Barre.
Killed in Action, Previously Reported Wounded Severely.
Bugler.
Edward L. Schenck, Philadelphia.
Missing in Action, Previously Reported Wounded Severely.
Private.
Edward R. Connor, Pittsburgh.
Killed in Action, Previously Reported Missing in Action.
Private.
Charles L. Blanchard, Kittanning.
Bruno Cosmand, Timblin.
Archie Cummings, South Fork.
John J. Curran, Scranton.
Leonard J. Daily, Philadelphia.
Giuseppe De Celis, St. Clair.
Robert Milton Dunn, Arnold.
Lawrence Howard Durnell, Marleville.
Richard Gassett, Newmantown.
Edward Jacob Goetz, Fairview.
William Goldman, Philadelphia.
Jacob Greenfield, McKeesport.
William J. Lambert, Kingston.
Eoland H. McCaughey, Philadelphia.
Orris L. McNeal, Tyrone.
Edward McNichols, Ned.
George W. Cole, Mamakolin.
Irvin Sell, Montelo.
Peter Stukis, Pittston.
Charles N. Stull, Leechburg.
Anton Syper, Shenandoah.
Robert Waterman, Ickerman.
Died of Wounds, Previously Reported Missing in Action.
David E. Dornblaser, Nazareth.
Otis P. Kahle, Friendship.
Verona J. Galt, Summit.
Died, Previously Reported Missing in Action.
Private.
Kenneth A. Moorehead, Pittsburgh.
Private.
George J. Neff, Johnstown.
Wounded Severely, Previously Reported Missing in Action.
Mechanic.
James H. Cowan, Philadelphia.
Ivin Krachman, Myersdale.
Sick in Hospital, Previously Reported Missing in Action.
Sergeant.
John H. Deitrich, Westconico.
Private.
Charles H. Engel, Pottsville.
Louis Decaprio, New Castle.
Thomas Patrick Lyons.
Benjamin D. Levin, Philadelphia.
WOUNDED SEVERELY.
Private.
Giuseppe Bellaroba, Hazleton.
Joe Catene, Rochester.
William F. Dierker, Glenfield.
Joseph P. McElvyn, Philadelphia.
Frank J. Miesky, Plymouth.
Joseph J. Overy, Mount Pleasant.
Hugh Philip McLaugherty, Mauch Chunk.

Carl J. McNary, Eightyfour.
Elie Milovich, Hanlin.
Frank Schiffer, Scranton, Pa.
Samuel Scarles, Wilkes-Barre.
Bernard J. Singer, Cresson.
Emery T. Smith, Luzerne.
Peter Sopagee, Girardville.
Howard J. Bergmann, Philadelphia.

Conrad Brookley, Bridgeville.
Adorato Collaretti, Sunnyvale.
James P. Connolly, Silver Creek.
Joseph Killeullen, Maineville.
John Kovner, West Newton.
Joseph J. Knable, Philadelphia.
Pasquale Mancuso, Erie.
Robert A. O'Donnell, Summit Hill.
Saturin Piekanski, Lacksville.
Shooley Pugh, Coatesville.
Herbert S. Scholl, Philadelphia.
Walter Uchis, Philadelphia.
John P. Van Leer, Philadelphia.
Elmer W. Schor, Etna.
Earl T. Rader, Pottsville.
William J. Bradley, Philadelphia.
Dorsey C. Byrd, Philadelphia.
Albert J. Eckert, Pittsburgh.
Wilbur Hoodmaker, Catawqua.

WOUNDED (DEGREE UNDETERMINED).
Private.
Elmer E. Weikel, Perkasie.
MISSING IN ACTION.
Sergeant.
Walter J. Lord, Philadelphia.
Arthur W. Nelson, DuBois.
Anthony J. Pack, Mount Olivet.
Pennsylvanians mentioned are:

WOUNDED SEVERELY.
Sergeant.
Samuel P. Capwell, Franklin.
Corporal.
Richard J. Burns, Coupon.
MISSING IN ACTION.
Private.
George F. Bauer, Bethlehem.
In Hospital, Previously Reported Missing in Action.
Private.
Leon J. Roland, Meadows.
Henry C. Butler, Pittsburgh.
Paul S. Segalini, Pittsburgh.
Returned to France, Previously Reported Prisoner of War.
Private.
George C. Habee, Philadelphia.
 Percy Hoskins, Philadelphia.

Murdock Calls For Draft History

Fifty of the 281 local draft boards in Pennsylvania have sent to Major W. G. Murdock, at the State Draft headquarters, histories of the oper-

ation of the draft in their districts, which are to be preserved in the permanent records of the draft in Pennsylvania. Members of other draft boards have been urged in a circular letter issued to prepare complete histories, including humorous incidents.

"Many of the articles sent have been carefully prepared and cover all lines of activity in relation to the draft and will be valuable to the historian of the future," said Major Murdock. "The Boards which have filed deserve a great deal of credit for the care and pride they have taken in this work. These reports will have a permanent historical value and all members and clerks should contribute something."

State Draft headquarters has compiled a statement showing the claims acted upon by district appeal board No. 1, of Philadelphia, and by the district board for the city of Philadelphia, No. 2, board having been abolished August 5. In all, 25,692 appeals were acted upon, 14,933 being granted and 10,759 denied. There were 2,222 of the first registration considered under the old system and 7,887 of the first registration under the questionnaires; 1,976 under the second and third registrations and 13,606 under the fourth registration. Over 11,000 claims were either industrial or agricultural.

DILL'S Cough Syrup
Combining the best ingredients, its soothing remedial properties will act quickly in cases of
Coughs, Colds Grippe, Catarrh
Have it on the medicine shelf, ready for the ailments of the respiratory organs that come so suddenly at this season. Very pleasant for children to take because of its laving aroma and taste. Take according to directions that come with each bottle. You'll find it at your druggist's or dealer in medicine.
Made by The Dill Co., Norristown, Pa. Also manufacturers of those reliable
Dill's Liver Pills Dill's Balm of Life Dill's Worm Syrup Dill's Kidney Pills
Ask your Druggist or Dealer in Medicine.
The kind mother always kept

Perfect Health Is Yours If the Blood Is Kept Pure

Almost Every Human Ailment Is Directly Traceable to Impurities in the Blood.
You cannot overestimate the importance of keeping the blood free of impurities. When you realize that the heart is constantly pumping this vital fluid to all parts of the body, you can easily see that any impurity in the blood will cause serious complications.
Any slight disorder or impurity that creeps into the blood is a source of danger, for every vital organ of the body depends upon the blood supply to properly perform its functions.
Many painful and dangerous diseases are the direct result of a bad condition of the blood. Among the most serious are Rheumatism, with its torturing pains; Catarrh, often a forerunner of drea, consumption, Scrofula, Eczema, Tetter, Erysipelas and other disgusting skin diseases; Malaria, which makes the strongest men helpless; and many other diseases are the direct result of impure blood.
You can easily avoid all of these diseases, and rid the system of them, by the use of S. S. S., the wonderful blood remedy that has been in constant use for more than fifty years. S. S. S. cleanses the blood thoroughly and routs every vestige of impurity. It is sold by druggists everywhere.
For valuable literature and medical advice absolutely free, write today to the Medical Dept., Swift Specific Company, 437 Swift Laboratory, Atlanta, Ga.

The 'phone Number of Harrisburg's Newest Bakery

Either 'phone 4976 Either 'phone

Write this number down in a convenient place so you will always have it

- and after you have written it down, memorize it. It's the best 'phone number you will want to remember.
- Then go to your grocer and make it very emphatic to him that you want to try a loaf of Gunzenhauser's bread.
- If he hasn't put his name on our list of grocers, as yet, then call 4976 on either 'phone and we will see to it that you get Gunzenhauser's bread promptly and regularly.
- When we look back over our records of last week, the first week we have been in business in Harrisburg, we are delighted. Everything started in so well and kept up the pace, and improved as each day came and went.
- We were very optimistic when we started in our new bakery here. And our bread pleased the people of this city so well from the start, it looks like all our first customers told their friends how good Gunzenhauser's bread is — for our output had to be increased steadily every day last week.
- A man from out of town, some suburb of Harrisburg, dropped into our bakery last week and told us he wanted to sell our bread in his store. Said he, "Seems like this town has gone wild over your bread."
- Well, that's a pretty strong compliment to put to a new bakery, just a little over a week old now, but we venture the guess that he'd asked a few people what they thought of our bread and they naturally told him the fact without hesitation, that Gunzenhauser's bread is quality bread.
- He's got a good class of trade in his little community and now that he can get the kind of bread he has wanted for his customers for a long time he isn't losing a minute getting it.
- That's a good example for YOU to follow. Now that you can get bread as good as mother used to make — well, just get Gunzenhauser's bread and you will have it.

The GUNZENHAUSER Bakery
Eighteenth and Mulberry Streets

Wm. Strouse Our January Sale

—is the sale which BOYS COMING HOME FROM THE SERVICE should take advantage of. Every line in our store is reduced for Our January Sale. It is not a question of how big our losses will be by reducing prices so drastically, but rather how well we will clear our stocks. We take this measure even against the prevailing high market prices. BOYS RETURNING, especially, will want their dollars to go as far as possible. There is no better way to economize while changing from Uncle Sam's uniform to Civilian's clothes than to buy Wm. Strouse Clothes in Our January Sale.



All Men's Suits and Overcoats In Our January Sale

\$25.00 Suits and Overcoats	\$19.50	\$40.00 Suits and Overcoats	\$33.50
\$30.00 Suits and Overcoats	\$24.50	\$45.00 Suits and Overcoats	\$37.50
\$35.00 Suits and Overcoats	\$27.50	\$50.00 Suits and Overcoats	\$41.50

All Boys' Overcoats and Suits In Our January Sale

\$7.50 Suits and Overcoats	\$5.85
\$8.50 Suits and Overcoats	\$6.85
\$10.00 Suits and Overcoats	\$7.85
\$12.50 Suits and Overcoats	\$9.85
\$15.00 Suits and Overcoats	\$11.85
\$18.00 Suits and Overcoats	\$14.85
\$20.00 Suits and Overcoats	\$15.85

All Shirts In Our January Sale

Madrás, Percales, Silk Stripe Madras, and Finest Silks—	
All \$1.00 Shirts	79¢
All \$1.50 Shirts	\$1.29
All \$2.00 Shirts	\$1.49
All \$2.50 Shirts	\$1.89
All \$3.00 Shirts	\$2.19
All \$3.50 Shirts	\$2.69
All \$4.00 Shirts	\$3.19
All \$5.00 Shirts	\$4.19
All \$6.50 Shirts	\$5.49
All \$7.50 Shirts	\$6.49
All \$8.00 Shirts	\$6.89
All \$8.50 Shirts	\$7.49
All \$9.00 Shirts	\$7.89

The Wm. Strouse Store--310 Market St.