

THE SHAW-WALKER CO., MUS^WEGON-CHICAGO 33877

Figure 1. The effect of the concentration of the polymer on the gelation time of the polymer solution. The concentration of the polymer was 0.5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834

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Conduct

Gardner Wm. J. Ex. Stw.

436

1339 Floyd St., Louisville, Ky.

Correspondence from

1201

Diploma from Dickinsons College.

526

Louisville School Board

897

Belcourt, N.D.

Aug. 18, 1906

Dear Mr. Lipps

I am desirous
of securing a position
with the Ford Motor
concern.

I have come to the
realization that one
must specialize in
order to make progress.

I am willing to start
from the bottom.

and go up.

I am confident that
I can become a valuable
man for the concern.
Since 1908, with the
exception of last year
I have followed athletic
coaching - last year
I practiced law in
Kentucky, where I was
admitted in 1910.

I have gone into detail
in order to refresh your
mind, as I need advice
as to what proceeding I
shall follow to secure a
position.

Hoping that you can favor
me with an early reply,
I am, Most sincerely,
Wm J. Gardner

Ashura, Wis.
Sept. 19, 16.

Dear Mr. Lipps:

I have just
received your letter
which was forwarded
to me.

In reply will say
that I am anxious
to reach Carlsle
in order to finish

The preliminary work
essential to enter
The Third Course.

I am anxious to
know how long a time
is required to finish
the course.

At the present, I
am short of funds -
even as much as
to pay my transportation
to Carlisle. If you
can see some plan
by which you can
advance me enough
for transportation - I will
reimburse you in
due time.

Hoping to hear from

you in the
immediate future.
I remain

Most sincerely,

Wm. L. Gardner,

Peabody,

Wisconsin

Chipp - N. A.
MANUAL FIRST REGIMENT
INDOOR MEET



J. S. LEAKE, SECRETARY
1312 SOUTH FLOYD ST.

LOUISVILLE, KY. Jan. 27, 1909.

Mr. M. Friedman,
Carlisle, Pa.

My dear Sir:-

Referring to your letter of January 23rd,
which has been handed to me for reply, I would say
that we employed Mr. Wm. J. Gardner from your Institution
for our Foot-ball coach during the season of 1908 and
his work was entirely satisfactory. At the close of
the season we engaged him as coach for all branches
of athletics at a salary of \$125.00 per month.

We are very much pleased with Mr. Gardner,
and his influence over our boys has been for good.

Hoping that this information is all that you
wish, I am,

Yours very truly,

J. S. Leake,
Secy.

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D. C.

March 21, 1910.

Mr. William Gardner
Dupont Manual Training School,
Louisville, Ky.
Dear friend:-

It has often been said that students at various schools who have made any special reputation as athletes, seldom amount to anything after the leave school. To show that this statement is not true as far as the students of Carlisle are concerned, I have prepared an article, which is to be illustrated, on the splendid success of some of our graduates and ex-students who while at Carlisle were conspicuous in athletics.

This article is to be published in our school magazine, the Red Man, and afterwards issued in pamphlet form for distribution. The article is now ready and I am waiting for some suitable photographs to illustrate it.

I want a photograph of you, either alone, in a cabinet size or one showing you at your work as director of Athletics. I will be glad to send you check covering the cost of the photos on receipt of the same. Trusting that you may be able to assist me in this promptly, I am

Very truly yours

NRD

Superintendent.

Collier
THE NATIONAL

Oct. 20th, 1913.

Messrs. P. F. Collier & Son,

110 Century Bldg., Cleveland, O.

Gentlemen:

This is to advise that the present address of the W. J. Gardner you refer to in your Mr. Crocker's letter of October the 17th is not known to us here. Let me suggest that your inquiry be addressed to Gardner's brother, Mr. George Gardner at Keshena, Wisconsin.

Very truly yours,

HKM.

Superintendent.

P.F. Collier & Son

ESTABLISHED 1875

Publishers of
Good Books

OFFICES AND PLANT 416-430 WEST 13TH ST., NEW YORK CITY

Cleveland, O
Oct. 17, 1913

Carlisle Indian School,
Carlisle, Pa.

Gentlemen:-

We are very desirous of locating Mr. W. J. Gardner, who was physical director at the Otterbine University, Westerville, Ohio during the year 1912, and have been referred to you as being possibly able to give me his present address.

You will find enclosed a stamped envelope and greatly appreciating any information you can give us, we are,

Yours truly,

P.F. COLLIER & SON

per *[Signature]*

Mgr. Credit Dept.

OTTERBEIN UNIVERSITY
WESTERVILLE, OHIO

WALTER G. CLIPPINGER
PRESIDENT

October 16, 1913.

U. S. Indian School,
Carlisle, Pa.

Gentlemen:

We are enclosing herewith a stamped envelope for information concerning the present address of Mr. W. J. Gardner, who was our Physical Director at Otterbein last year. Will you kindly indicate what his employment and who his employer are? We shall thank you very kindly for this information.

Cordially yours,

WGC-O

W. G. Clippinger
President.

Oct. 20th, 1913.

Mr. W. G. Clippinger,
President, The Otterbein University,
Westerville, Ohio.

My dear Sir:

Referring to your letter of October the
sixteenth, I have to advise that W. J. Gardner's
address is not known to us here at this time.

His brother, George Gardner, is now employed
at the Keshena Indian School at Keshena, Wisconsin,
and it may be possible to secure the desired information from the latter.

Very truly yours,

HKM.

Superintendent.

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January 6, 1914.

Mr. William Gardner,
74 North Broad St.,
Atlanta, Georgia,

Dear Friend William:

I have had a very pleasant visit with Charles Guyon during the past week at which time he came for the purpose of arranging for one or two football games this coming fall, in the south.

I was glad to see him looking so prosperous. He told me that you have recently come to Atlanta for the purpose of engaging in the same kind of business that he has so successfully taken up himself. I write to offer you my best wishes and to express the hope that you will find success and happiness in this newly chosen field.

The Spaulding Company is one of a strong and established business enterprise and you are fortunate to be connected with it. I shall be pleased to hear from you at any time and when you are in this locality hope you will call.

I am tremendously interested in the welfare and success of all of our graduates and returned students. With best wishes, I am

Sincerely your friend,

MF:LB

September 28, 1914.

Mr. William J. Gardner, Athletic Director,
University of the South,
Sewanee, Tenn.

My dear Mr. Gardner:

Referring to the matter of your allotment concerning which I wrote the Office for you sometime ago, I am enclosing herewith a letter from the Indian Office relative to this matter. This letter will give you full information as to the status of those allotments, and probably nothing further can be done until the additional legislation now pending is secured.

Wishing you a successful season, I remain,

Sincerely yours,

OHL:SR

Supervisor in Charge.

436

Sept. 1st, 1915.

Mr. Wm. J. Gardner.

Sewanee, Tennessee.

Dear Mr. Gardner:

I have received your letter of the 27th ultimo and must state in reply thereto that the two assistant coaches we intend to use this fall were selected months ago. This year, therefore, consideration cannot be given your application for appointment to such a position.

A number of former Carlisle players had applied here earlier in the year for appointment as coach, but the appointment was made by the Commissioner of Indian Affairs and only the assistants were later selected.

Very respectfully,

HKM.

Superintendent.

Baseball Department, 1915
Athletic Board of Control
The University of the South
Sewanee, Tennessee



Sewanee, N.H.

Aug. 27, '15

Supl. O. N. Lipps.

Dear Sir:

I am not returning to the University of the South as they lack the necessary funds.

If you need an assistant coach for football, I will be more than glad to help out at a very reasonable salary.

I have been coaching since the fall of 1908 and I think experience counts for a good deal.

My work at Sewanee was

Baseball Department, 1915
Athletic Board of Control
The University of the South
Sewanee, Tennessee

quite satisfactory - however
they are in debt to the
extent of Four Thousand
Dollars and are unable
to pay me.

If you need me will
me at once.

I will appreciate your
help.

I am,

Most Sincerely,

W. J. Gardner

I played on the Carlisle
Team four years.

436
Superintendent.

Sept. 21st, 1916.

Mr. Wm. J. Gardner,
Keshena, Wisconsin.

Dear Mr. Gardner:

Your favor of the 19th instant was received this morning and in reply thereto I must state that I cannot arrange to pay for the transportation of any Indian students who are more than twenty-one years of age. It is also required in the Regulations that special authority be secured from the Commissioner of Indian Affairs to enroll students who are more than twenty-one years of age or to retain those in school who reach the age of twenty-four while they are enrolled here.

However, that matter has been taken into consideration with the Commissioner and I should know within a very short time what I can do for you and other young men who desire to enroll here to take special work to prepare for selection to go to the Ford Factory in Detroit, Michigan.

Very truly yours,

HGM.

Superintendent.

426
Aug. 24th, 1916.

Mr. Wm. J. Gardner,

Belcourt, North Dakota.

Dear Mr. Gardner:

I have received your letter of the 18th instant relative to your desire to become connected with the Ford Motor Company at Detroit, Michigan, and can state in reply thereto that I will gladly assist you.

In all cases where former students have been selected for the special work given in the Ford Company's factory it has been after such students had returned here and had taken the preparatory work which has consisted of shop mathematics, mechanical drawing and the every day practical work in our shops that tends to teach the value of a full day's work. Mr. Ford has become specially interested in the young men from this school because they are willing to do a good day's work every day and his sympathies are entirely with the man who does the hard, rough work which is the foundation of the great success that has been achieved by the Ford organization.

If you are willing to return to Carlisle as a student to prepare for selection to go to the Ford factory I will refer the matter to the Indian Office for consideration, as special authority would have to be given to effect your re-

-2- Mr. Wm. J. Garáner, Belcourt, North Dakota.

enrolment on account of your age and your academic attainments. After full consideration of the matter an agreement has been reached with the Ford officials whereby all those who are given employment thru the help of this school must have taken a course in preparation for their work and shall continue to be under the jurisdiction of this school until the work given is completed or it is believed advisable for other reasons to grant a release from Carlisle.

Will you let me hear from you, therefore, what further service I can render?

Very respectfully,

HJM.

Superintendent.

William Gardner again has charge of athletics at the Manual Training school in Louisville, Kentucky. 1910

William Gardner, a Chippewa Indian, who spent four years at Carlisle and was a famous end on the football team, being a teammate to Exendine, has recently been admitted to practice law at Louisville, Ky., where he is athletic director at Dupont Manual Training School. His work at the latter institution has been so successful that he has been re-engaged. In addition to his training at the school, he attended Dickinson College, from which institution he has a diploma in law. He is making an enviable record in Louisville, and has the respect of the entire community. His brother, George Gardner, a crack end on the team of 1908, who was graduated with the class of 1909, has recently accepted an important position at the government Indian school at Hayward, Wis., where he is now engaged. George married a Carlisle girl, and reports which are being received indicate that he is doing well.

A letter was recently received from Wm. J. Gardner, one of the members of the '07 football team. He is now coaching at the Dupont Manual Training School, Louisville, Ky. He wishes to be remembered to his friends at Carlisle, especially to the football boys. 1909

CAMP CUSTER SOLDIERS SET FOR CHARGE ON CHICAGO

11-29-17.

Camp Custer, Mich., Nov. 28. — All is set here for the big game at Chicago with Camp Grant so far as the Camp Custer team is concerned, and the greatest confidence is in the air around camp. Practically all of the officers in the camp will go to Chicago for the battle except those needed to carry on the routine duties of guard work. Nearly 1,000 men also will go with the team.

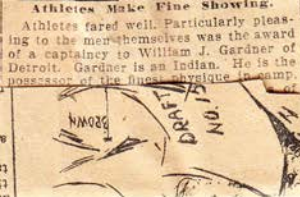
Practice today included heavy scrimmage work, and Captain W. A. Gardner, the former Carlisle Indian, is satisfied that almost everything has been done to put the team in shape. The personnel of the team numbers some of America's most famous gridiron warriors, among them being Blake Miller, former All-American half from the Michigan Aggies; Lieutenant Kerwin and Lieutenant Ward, former Georgetown players, who were All-American selections. Lieutenant Costello, another Georgetown player, was an All-American selection during his college days, as was Sward, the Princeton center.

Athletes Make Fine Showing.

Athletes fared well. Particularly pleasing to the men themselves was the award of a captaincy to William J. Gardner of Detroit. Gardner is an Indian. He is the possessor of the finest physique in camp. He is the embodiment of the talents of his dying race. Not only is he the second greatest athlete turned out of Carlisle, but a man of gift and culture. In the midst of his training he received a telegram from his mother announcing that his sister had been murdered on their ranch in South Dakota and asking him to come at once. He struggled for a moment and then his big body relaxed. The face became a mask. The current of emotions was smothered. He wired back:

"Can't come." Then on second thought he added, "But you know I will some day."

The Indian in him had spoken.



COMPANY H, 338TH INFANTRY, N. A.
CAMP CUSTER, MICHIGAN

Nov. 29, 1917

Editor - Carlisle Arrow -

Sir:

Allow me to salute
you and your paper - as
Captain W. J. Gardner - Co. H. 338 Inf.

I am always conscious
of the fact that I owe a
good deal to Carlisle. Major
W. A. Mercer, and the ever
dominant inner-self of the
Indian.

Wishing you a successful New
Year, I remain,

Very truly,
Captain W. J. Gardner.



W. Gardner

$1\frac{5}{8} \leftrightarrow X$ 4 \updownarrow

75374 ⑨

436

NAME AT CARLISLE

Wm Gardner

PRESENT NAME

DATE	INFORMATION THROUGH	ADDRESS	OCCUPATION	ITEMS OF INTEREST	GRADE
1910 11/29 1917	self	Myfont M. D. Rehor Louisville, Ky.	Attn. Director		Ex.
		Co. H. 338 th Infantry	N. A. Camp Carter, Mich.		Capt. in U. S. A.