THE MISSOURI BOTANICAL GARDENS.

L-HISTORICAL AND DESCRIPTIVE.

BY HENRY V. CLARKE,

On the western ontskirts of the city of St. Louis lies a giorions monument to the life-work of one of her most loyal-hearted citizens—the Missouri Botanical Garden—the ontgrowth of a private pleasure that has become a great public good. It is the lasting and living memorial of the labors and nobly-conceived purliving memorial of the labors and nobly-conceived pur-poses of Henry Shaw, and the memory of his uever-failing interest in this work of the best years of his life is perpetuated by the name, "Shaw's Garden," in spite of the founder's decree to the contrary, that the title should ever be "The Missouri Botan'tal Garden." But if we wander through this treasmy of plant-life and learn the story of the man who made it, a merely casual glance about enables us to fully realize how inseparahiy must his name be connected with all that is there, for few indeed have been the private citizens who have left an estate which so eloquently bespeaks the spirit of their lives, and round which are clustered more fascinating associations. Three years only have passed since Shaw's last bequest made the garden a public

institution, and so from the time of its founding as a simple pleas-ure ground, in '58, it grew np nnder his eyes till it became one of the first of its kind in this courtry, and abie to hold its own by side of Kew and Melbonrne, in the Old World.

Engiand claims Henry Shaw a one of her true-hearted sons, for America was his country by adoption only, and St. Louis was the city in which he cast his lot where he made his fortune, and to which he left it. The closing year of the eighteenth century saw the beginning of his nearly ninety years of smooth-flowing life. The home of his boyhood was Sheffield, and in several excellent schools in its vicinity he received a quite thorough education. Early he evinced the love for plants and flowers which in later years became a ruing passion, but it was a taste he wa not permitted fully to indulge till nearly half his life was spent. For year the was engaged in his father's hardware manufactory, and then, at the age of eighteen, came to New Orleans to undertake cotton-raising. But the pro spects did not prove to be what he had anticipated, and in the same year he reached St. Lonis and started ont in business with

small stock of entlery furnished him by an nucle Inborn business ability and frugal habits were the foundation of success, and as the years rolled on he became a prosperons merchant, loved and respected by his fellow-citizens, but at no time aspiring to more than a quiet and unassuming position among them. ar profit and capital increased, and finally, in 1839, when account was taken of the annual gains they were found to exceed \$25,000—"more," said Shaw, in afterward telling the story, "than it seemed one man in my circumstances should make in a single year." And so, with a consistency as remarkable as the view he took of his good fortune, he retired from business life, purposing to be a free and satisfied man for the rest of his days, though he was scarce two-score. A quarter of a million seems now but moderate wealth, in these days when millionaires are far from rarities, but in the for-ties such a sum was worth full four times as much; and so, with no one but himself to care for, he might well feel that, carefully invested, two hundred and fifty thousand made him thoroughly independent. And to show how well he knew just where to best place this fortune, it is only necessary to recall that the asset valuation of the real estate he bequeathed the Botanical Garden now aggregates over a million and a quarter.

It was natural that after his retirement he should wish again to visit his home in England, and, accordingly, during the uext five years he twice crossed the and made extended journeys through contiuental Europe. Well, too, was he fitted to be an all-observant traveler, and he found in all he saw and heard an education which broadened and elevated his ideas and conceptions and exercised a marked influence over his after-life, yet gladly he returned to the country of his choice and to the city in which he had spent twenty years of active and happy pursuits, and only e more did he see his fatherlaud.

It was on this journey and in an historic spot that the

inspiration came to him of founding a great garden in his adopted town, for the lasting benefit of coming gen erations and the furthering of scientific learning. the long years that had been too erowded for the indul ce of his love for nature had yet not dulled the lingering passion, and again it was fired within him as he strolled through the marvelous gardens of Chatsworth, the ancestral domain of the house of Dovenshire, where limitless means and thorough refinement had labored for three hundred years to produce the garden spot of earth. Here, along these paths he strode, had been the son of William the Conqueror, and William Cavendish, and the fated Mary, Queen of Scots. The idea con-ceived at Chatsworth grew and took shape during the several years following his return to St. Louis, and through the aid and connsel of Sir William Hooker. director of the gardens at Kew, and Dr. George Engle mann, the physician and botanist of St. Lonis, plans were made in 1857, and in '58 the garden was actually started round Shaw's country residence at Tower Grove; and from that time on all his resources and time were devoted to this dearest project of his life. Year by year it grew, and in '66 Mr. James Gurney came from the Royal Gardens at Kew to take the position of head gardener, and in the same year the



HENRY SHAW.

first steps were taken toward the founding of Tower Grove Park, the beautifully picturesque and artistic park just sonth of the gardens. For thirty years Shaw watched over the great work he had begun, each month his own hand made out the pay-roll np to the very month he died, and at last, in August '89, at a venerable month ne died, and at last, in August os, at a renerable old age, he passed away, leaving as his last will and testament a document that bespoke the thoughts and spirit of the man more truly far than could be told by mere biography.

In 1859, on petition of Henry Shaw, the Missouri General Assembly passed an act enabling him to establish a permanent board of trustees to whom to bequeath the Botanical Garden and the endowment thereof, and by

his will these trustees were appointed-The Mayor of St. Louis, the Episcopal Bishop of the Diocese of Missouri, the President of the St. Louis Public School Board, the President of the Academy of Scien Louis, and the Chancellor of Washington University, St. Louis, all these ex-officio-and ten other acting trustees, severally named, whose places would be filled by election as they became vacant. Also the late Dr. Asa Gray, who had watched the growth of the work with the greatest interest, and had done much to aid it, was made an honorary trustee, as was also Prof. Baird, of the Smithsonian Institute. To Spenser F. To the able body of men he had thus chosen be willed the garden, con-sisting of about forty-five acres under cuitivation, and fifty or more acres of pasture land adjoining, to be used in extending the work as might be advisable. For the perpetual maintenance thereof he provided an endowment, almost entirely in real estate about St. Louis, aggregating over a million and a quarter, and now bringing the immense income of about \$125,000 per annum, a princely sum for the support of an institution of such nature.

But this alone was not the whole of his plan for furthering botanical science, for in 1885 he transferred to Washington University, of St. Louis, by deed of gift, a tract of land with improvements which brings an lu-come of about five and a half thousand per annum, for the endowment of a School of Botany, "to augment and perpetuate the usefulness of the Missouri Botanical Garden," and "for the promotion of education and investigation in that science [Botany], and in its applica-tion to Horticulture, Arboriculture, Medicine and the Arts, and for the exemplification of the divine wisdom goodness as manifested throughout the vegetable klugdom." Few schools of botany in the country such opportunities for thorough work, for, in addition to its liberal endowment, there is the garden, with its unlimited supply of material and its magnificent herbarium and botanical library. The director of the garden, moreover, by provision of the will, holds the chair of botany, thus insuring harmonious cooperation etween garden and school.

To the various public charities about his city he gave but little—a thousand or two thousand dollars to each of several he selected—he devoted his fortune to the one great charity of which he was himself the author. And as we turn the pages of the will we cannot but marvel how thoroughly he provided for every detail that would go toward maintaining the cause he espoused. One thousand dollars yearly, he decreed, should be devoted to a banquet, at which should be gathered the trustees, literary and scientific men, and friends and patrons of stural sciences; and in addition to this, four hunthe natural seriouses, and manufact to the gardeners, floriers reserven, etc. Both these we can see were the wisce of provisions for keeping awake and fresh before the minds of all the interest in the work which must needs be ever present to make it a lasting success. At the annual banquets which have thus far been held have been represented the chairs of science and literature in great colleges and universities all over the country; eminent statesmen have been present; military officers and private citizens, who watch with interest scientific advancement and are ever ready to give their encouragement and patronage; and on each occasion heartfelt and eloquent responses have been called forth by the announcement of the toast of the

rening: "The Memory of Henry Shaw."

One other provision of the will, small in itself, impresses us perhaps more than any of the rest, for noue more forcibly displays the reverential esteem in which he held the children of Nature, to whom his life-work was devoted. It is a bequest of two hundred dollars a year to the Episcopal Bishop of Missouri, to be paid by him to such minister of the Gospel as he may select for a sermon to be preached in one of St. Louis



There has just been issued an édition de luxe of that unique and delightful book, "Three Girls in a Fiat," published a few weeks age by the anthora, Laura Hayes, Jean Loughborough, and Enid Yandell. Each of these young women have been associated with the Board of the interest and value of the book pertains to that body and its work the following inscription is expressly appropriate: "To that noble body of women which is acting as advance guard to the great army of the unrecognized in its onward march toward liberty and equality. The Board of Lady Managers of the World's Columbian Exposition." The book is like a freshly gathered bouquet, placed as the flowers were culled, without regard to arrangement. It is the simple, straightforward story of three refined young girls who wearying of boarding-house life, made themselves a home so attractive that in reading of it one finds himself wishing that he could have been one of their guests. It is, however, much more than an alluring tale, as it contains that which is of interest in regard to the Columbian Exposition that is not to be found elsewhere. The édition de luxe is an exquisite volume bound in cream silk, over which is strown great soft blue pansies. It is printed on heavy paper, on which the numerous illustrations show to the best possible

It is charm of manner rather than value of matter that has given Renan the fame which assures him a prominent place in the history of the nineteenth century. It is good to be able to record of a book, that in style it is expressly excellent, and this can be said of "Spanish Cities; with Glimpees of Gibraitar and Tangier," by Dr. A. G. Stoddard; published by Charles Scribner's Sons. Dr. Stoddard; sto editor of the New York Observer and also anthor of "Across Russia," a book of travels distinguished among books of its kind for the elegance of its diotion. "Spanish Cities" is a capital book for young people. It would, indeed, be difficult to find a book of travels at once so entertaining, instructive and pleasing.

"Consin Philis, a story of English Love," is one of a unique little set of books by foreign authors called respectively stories of Spanish, French, Russian, German, Italian and Euglish loves, being published by A. C. McClurg & Co. This small volume by Mrs. Gaskill represents the English love, and is one of the most delightful of her charming steries. The picture presented is clean, wholesome and alluring from its simple and hourly beginning until its finish. The tale is one of a by no means large number which can with confidence be put in the hands of a young girl. Both as to manner and matter it is all that could be desired.

LITERARY NOTES.

A singularly interesting book is "An Englishman in Paris," published by D. Appleton & Co. It is a volume Paris, phonasca of D. Appieton & Co. It is a volume of recollections including anecdotes and pen pictures of kings, queens, leading lights of the stage, great painters, writers and politicians. It is a remarkable melange where good, bad and indifferent are made bed-fellows. Still it is highly informatory and interesting. author of "Cross Currents," Miss Mary Angela Dickens, is a granddaughter of Charles Dickens. She does not, however, in this work show any trace of her grandfather's brilliant genius.—Somewhat misleading is the title of Walter Besant's "London." The book does not deal with modern London, the time of George II being the latest period embraced by the narrative. As did M. Maspero, in his "Life in Ancient Egypt and Assyria, Mr. Beant presents pictures of London as it was in the time in which he writes.—"Other Things Being Equal," by Emma Wolf, published by A. C. McClurg & Co, is interesting as a sign of the times but as a literary pro duction it is uncertain in touch and lacking in finish. Miss Wolf is a Jewess who in her book etrongly advocates the intermarrying of Jews and Christians.—The Scribners have issued a new addition of "Sonth Sea Idyls," by Charles Warren Stoddard. In an introduc-tory letter W. D. Howells says: "Long ago I delighted in these things, the lightest, sweetest, wildest, freshest things that ware wentless. things that ever were written about the life of that summer ocean."-The highest price ever paid in France for the serial rights of a novel was recently paid to M. Zola for those rights in his new story, "Docteur Pascal," for which be received \$7,000.—A new story by W. D. Howells, entitled "The Coast of Bohemia," is to be published as a serial in the Ladies' Home Journal.... "The Principles of Ethics," by Professor Borden P. Bowne, of the Boston University, is a somewhat exceptional book in that it reverses the usual method, and deduces a theory from the Verses the usual method, and deduces a interferent the morallife instead of ameral life from a theory.—A volume of short stories, called "The History of a Failure, and Other Tales," from the pen of E. Chilton, although not a work for children has a decided flavor of Mrs. Eving about it, and contains a study that is well worthy of

ANIMAL LANGUAGE.

It used to be told in the fairy tales that the hero could hear the grass grow and speak with the animals. In reality it is not likely that we ever shall develop the sense of hearing sufficiently to hear the grass grow, but it is quite likely that we shall be able to converse with easts of the field. But, do the beasts have a language? He would be bold, indeed, who would deny it point blank. We observe all around us too many indications of conscious communication between them, to have a right to say "no" absolutely. To be sure, some animals are silent, totally, it seems. But may they not convey their "thoughts" in some way, for instance, as the deaf-mutes do? Or may they not use a secret language, one like that of lovers, employing gestures and When we speak of language in this connection, it must be understood that we do not mean articulate speech. We take the word in its broadest sense as an expression for the means of mental communication existing between one creature and another. A sound or gesture made by an animal under any mental or emotional impression, and calling out a similar one in another animal, is an element of language. When the rabbit quickly beats the ground, its fellow-rabbits know that there is danger somewhere, and they take action accordingly. That is rabbit language. When the hunter imitates the rabbit and thus conveys the same ideas, he is "speaking" the rabbit language for the time being. Many animals use signs, which, of course, are understood through the eyes. The ants converse by touching antennæ and feet; many insects rub the elytra. This is animal language in its simplest form. It expresses but few ideas. But there are animals which are capable of modulating their "voices." Even the common rabbits, which seem to be mute, are con-stantly making sounds, which a little observation will soon discover to be ever changing in volume, modulation, etc. Much of this method of communication changes when the animal is brought into civilization from the wild state. The wild-dog, for instance, barks very little when in freedom. How the household dog barks and is able to express himself is well known. It has been observed that if the tamed dog is taken back to the wild state, he loses his voice. volces" are produced in the animal throat in a way similar to human language, but are not "volces" proper, nor "languages" proper, and yet they are full of psychological expression and reveal the animal's psychic states. If we tickle a chimpanzee in the armpit, the touch produces a grin on the face similar to that of a man under like circumstances; he also emits laughterlike sounds. The same is the case with the orang-outang. The gorilla knits the brow when angry, just We often observe in apes a complete change in the facial muscles, when something is going to hap-pen, be it agreeable or disagreeable. It is so also with the child. In the apes there

is evidently the same connection between the facial muscles and vocal muscles as in man.

If animals are able to express every idea they have, why not allow them a lan-To be sure, a very undeveloped language, yet relatively no farther from civilization than that of Pesheräh, which in European ears sounds like animal screams and yells. Bechstein has noted that the chaffinch expresses a joyous emotion by a single sharp "Fink," and anger by "Fink-Fink-Fink!" row and sympathy by "Trif." Houzean has found that the common hen has at least ten distinct sounds, well understood by the chickens. Rengger observed that the long-tailed Cebus of South America expressed astonishment by a sound between whistling and screeching, impatience by repeating "hu! hu!" and that he had a peculiar scream for pain or fear, Darwin thought he observed ten distinct sounds in the same ape, all of which called forth corresponding states of mind in other apes. Brehm says the same. However, why quote the learned? We have all, in everyday

life, observed something similar. Dr. Garner's experiments in the Simian language are also known. One must, however, gnard against the bellef that monkeys possess an articulated language. About some savages it can hardly be sald that they possess an articulate language. The Bushmen speak in a sort of articulated "voicing," and must add gesture to make themselves understood. On the other hand, the raven, the thrush the mocking-bird, the starling, etc., express themselves in well-articulated sounds. The parrots articulate in a surprising manner, though they do not understand the meaning of their own words. This shows that other living beings beside man possess the necessary organs for articulated sounds. The apes of Dr. Garner seem to possess articulation, according to his reports, but their vocabulary is extremely limited. As regards this point, however, it can be sald that, even among civilized people, very limited vocabularies are found. A French peasant, whose sphere of thought is not very wide, gets along with 600 words, while a philosopher will use twenty times as many. The Old Testament uses only 5,642 words, Shakespeare 15,000, and Voltaire 20,000. In view of this, why should an ape not be satisfied with twenty? Garner's experiments must needs be verified by many anatomical and physiological examinations; for Broca has, as it seems, proved absolutely that articulated language depends upon certain convolutions of the brain, particularly on the left side of the head. the speaking monkeys possess those convolutions? Broca has admitted the possible rudiments of such convolutions in certain apes; but later researches have not proved their existence in lower apes. Whatever may be the outcome of Garner's reported trip to the land of the gorillas, science must remain indebted to him for his discoveries, and the opening up of new fields on the subject of animal language.—George Lütken, in the Illustreret Familie-Journal (Copenhagen).

One thousand francs was recently paid for the broken wooden horse with which Napoleon played as a child.

In 1870 the proportion of certificated women teachers was 48 in every 100, to-day at is 66. Similarly, the number of women assistants has risen from 60 to 77 per 100. In 1870 there were 7,273 girls and 5,569 boy teachers. There are now 21,771 girls and only 6,360 boys learning the art of teaching.

As an evidence of the rapid development of the Northwest, the last census shows that taking one tier of counties on each side of the Red River valley, from the international line to the southern boundaries of Richiand county, North Dakota, and Wilkin county, Minnesota, it is found that there was a total increase of 2,463,450 acres, or 1,424.54 per cent in the area devoted to cereals in that well-known region between 1879 and 1889.



JOHN E. RICKARDS, Republican Nominee for Governor of Montana. [Page 321.]

chnrches, "on the wisdom and goodness of God as shown in the growth of flowers, fruits and other products of the vegetable kingdom." The first of these sermons appears in the Report of the Garden for 1890, and was delivered by the Rt. Rev. Daniel S. Tuttle, on the text: "Consider the Lilies of the Field." Eloquently, again, in '91, the Rev. Moutgomery Schnyler preached from the 33d verse of the IVth chapter of 1st Kings: "And he spake of trees, from the cedar that is in Lebanon even unto the hyssop that springeth ont of the wall," and to these words of Solomon he gave a significance that, had he heard it, could well have warmed the heart of him who paid this unique tribute to the Creator's wisdom.

It seemed that, as the years rolled by, the desire grew upon the old man that all which had belonged to him should be identified with the garden; and so, to still further carry out this end, he set apart \$10,000, to be devoted to removing his city residence from the heart of St. Lonis, on the corner of Seventh and Locust streets, to some site in the garden. Last year the work was done, and now it stands on Tower Grove avenue, in a break in the east garden wall, brick for brick and timber for timber as it stood in Shaw's lifetime, save that it has been made absolutely fireproof. On the massive door still stands out the oid-time door-plate, bearing the legend: "Henry Shaw"; and about the whole of the old-fashioned place there must linger a certalu picturesqueness and almost historic interest. Over three times the amount provided was expended ou this work, but it has supplied a mnch-ueeded want in furnishing a safe, appropriate and convenient home for the valuable herbarium and library, as well as comfortable offices for the director and his assistants. botanical library now numbers over 6,000 volumes, besides alithe current botanical periodicals and pamphlets, and includes many extremely valuable works, such as are to be found in but few places in the country. Several thousand dollars are expended each year in additions to this ilbrary and in the purchase of herbarinm collectious. The herbarinm now occupies two floors of the house and coutains au immeuse uumber of specimeus, including the great herbaria of Beruhardi and Englemann.

In the southern portion of the garden, with a great lawn sweeping around it, stands Shaw's old country mansion, bearing on its front the inscription: "H. S., 1849." Here, in accordance with the provision of the will, resides the director, Prof. William Trelesse, and just across the iawn stands the beautiful grove of magnificient trees of our own and foreign climes surrounding the mansoleum in which reposes the dust of the garden's master. Around it, and up and down each side of the pathway through the grove, are scattered splendid palms, with all the inxuriance of their tropical foliage. And in this enchanting setting, in the quiet shade away from the glare of open day, is placed the simple yet artistic granite structure, octagonal in form, domed, and surmounted by a Latin cross. A large glass door with iron grating forms each side, and within rests the

sarcophagus, surmounted by a ife-size rectining statue, chiseled by a master-hand from purest. Parian marble, and so life-like that at first sight we start back involuntarily, and almost feel that it could stir and speak. This figure truly is a marvel of the sculptor's skill; and as we gaze upon the expressive features, it seems as if Shaw had risen from his tomb and lay before us, wrapt in peaceful sleep and grasping oue of the blossoms so dear to him. Ou the sarcophagus below we read on.

one side, the simple date of his birth, and on the other, of his death, but we note, half-surprised, half-wondering, that the bronze-relief work round these inscriptions is brightly gilded. Why this gilttering adornment, we cannot refrain from asking, so inconsistent with the nnaseuming ways, the disregard for pomp or ostentation, of the man who is resting here? The story is a simple one, yet fascinating. As his life was drawing to its close, he seemed to dread the thought that some day the tomb which marked his last resting place must crumble into ruins. One mausoieum of rough face stone he erected just of uside the grove,



1. The Old Mausoleum with Statue of Victory. 2. The Mausoleum and Monument in Memory of Thomas Nottail. 3. Entrance to Grove of the Mausoleum.

but in the course of years discovered that the stone was crumbling. Grieved to see so soon the dread disaster, he placed within it, instead of the intended sarcophagus, a marbie figure, representing "The Victory of Science over Ignorance," with the inscription: "Ignorance is the curse of God; knowledge is the wing where with we fly to heaven." And then he raised the second granite manusoleum in the grove, firmenough to stand the ravages of centuries. An Italian sculptor crossed the ocean to make the drawing for his status, and he, yet by no means aged, posed for it. All was ready years before he died, and the figure and scarcophagus scaled

And still, besides its strangeness, there was pathos in the fancy. So while we naturally may wonder bow one who found so much in life could calmly plan for the day when it must pass away, let us seek to appreciate the spirit in which these plans were made, and gladly accord to the noble nearted philanthropist the grateful rememberance he so longed for, and to his work the recognition it well deserves.

THE GOVERNORSHIP OF MONTANA.

The State election in Montana will be very close, and at this date it is impossible to predict success for either party. The Republicans, however, are fortunate in having nominated for Governor a candidate who was elected Lieutenant Governor at the same time as a Democratic Governor was chosen. The term of office of the State officials is four years. In the State election of 1889 the vote for Governor was: Toole, Democrat, 19,564, and Power, Republican, 18,988. The present State Legislature stands Republicans, thirty six, and Democrats, thirty-five. The nominees for Governor are John E. Rickards, Republican, and Timothy E. Collins, Democrat,

Mr. Rickards was born in Delaware, July 23, 1848. Coming west in 1870, he spent eight years in Colorado, four in California, and settled in Butte, Montans, in 1882. He represented Silver Bow county in the territorial conneil, and was a prominent member of the constitution of the State. He was elected Lientenant-Governor in the first State election, receiving the highest vote of any candidate, and in the trying period which followed his conduct was such as to command public approval. He is a man of capacity, a sound and aggressive Republican without being a bitter partisan, and a thorough Western man.

It is well known that the tails of comets stream away from the sun, and are of very low density. Various hypotheses have been propounded to explain their movement away from the sun; but the most promising is that of a Russian physicist, who ascribes it to the repulsion of the solar radiation acting on a mass of extreme tenuity, whilst, on the other hand, the attraction of gravitation operates between the solar mass and the solid nucleus of the comet. The same physicist accounts for the mysterious terrestrial phenomena of the zodiacal light in the same way.

lay before us, weapt in peaceful sleep and grasping one of the blossoms so dear to him. Ou the sarcophagus below we read, on

the verdigris upon the bronze.

Ah! here was what he feared—'twould crumble into dust. 'Twas one of those little eccentricities no argument could shake. And so the bronze was gilded. No thought of estentation prompted it. In

Shaw's Old City Residence Reconstructed in the Garden.

to view. But ouce he discovered

the bronze was gilded. No thought of estentation prompted it. In persuance of the same odd idea he once gilded the magnificient bronzes of Shakespeare, Humboldt and Columbusin Tower Grove Park.

1. The Garden Mansion.

MUSIC AND DRAMA.

No part of the dedication or remonies of the Columbian Exposition worked more interest or won prester praise than the magnificent musical programme. The famous Mexican band was a notable feature, as was also Sousa's new Chicsgo band. The grand chorus of mearly six thousand volces, under the leadership of Theodore Thomas and Director Tomlins, was an inspiring sight and a brilliant trimmph for choral music on a grand scale.

Modjeska has nttered a few pertinent criticisms concerning our conntry. She says there is great talent among American women. I have cried with Georgia Cayvan and laughed with Ada Rehan; and Annie Russell and Mrs. Booth—all are talented. But it is the people. They have no respect for art. They and the star system, the love of money, kill artistic growth.—A new play at the Paris Odeon is called "A Marriage of Yesterday." It is by Victor Jannet, a young anthor, and is a great success.

is a great success. The and the status of the divorcée after her second marriage, not being re-cognized by the Catholic world.-"A Trip to Chinatown" celebrated its 350th consecutive performanceat Hoyt's Madison Square Theater last week.-Mr. E S. Willard has been well received in Montreal with "The Middleman." Before leaving England this summer, Mr. Willard secured for production in the United States a play hy Lord Tennyson, one of the last messages sent by the poet before the commencement of the illness which terminated so sa ily, being an expression of pleasure at the fact that Mr. Willard was to appear in a play of his.—Salvini made his first appe ance on Monday in San Francisco as Don Cæsar de Bazan.-Stuart Robon is making a tour of the South.—The infin-ence lbsen has acquired on the German stage is shown by the continued attacks he is subjected to and the many who try to imitate him. In the last week two new plays have been produced in Berlin due indirectly to his success, one at the Lessing Theater, called "A Blank Page," by Panl Heyse, and the other at The Wallner Theater, called "Mila," by Arthur Zapp, both of which met

with poor snecess.

Looal.—Thomas W.
Keene, the only tragedian of great reputation
on the road this season,
began an engagement
at McVicker's Theater,
Chicago, on the 24th.

He has been very successful everywhere, particularly in his great production of Richard III, in which character he is said to be the best now on the stage. The personation of the Shakesperean drama by Mr. Keene is always a welcome theatrical event, for Shakesperean drama, when fairly presented, stands for the best culbure and influence of the stage. Mr. Keene's engagement is for two weeks, during which time he will present his entire repertory.—Rosina Vokes has been well received at Hooley's Theater, and her new play. The Paper Chase," has won many admirers. Felix Morris has a good part, which he plays well. The new comedy entitled "Friends Across the Potomac" will be presented for two weeks, beginning October 30.—Charles Dickson revived "Incog" at the Grand Opera House on the 23d, and has been playing to good houses. He remains until November 5.—"All Baba" continues at the Chicago Opera House.—Russell's comedians, in the "New City Directory," have been doing very well at the Columbia Theater. They will be followed by Nellie

McHenry in "A Night at the Circus."—Bartley Campbell's "Siberia," at Havlin's Theater, will be followed by "The Limited Mail."—"Annt Bridget's Baby" has been the attraction at the Windsor Theater.—Corbett has been the feature of the week at the Haymarket Theater.—Haverly's Home Minstrels, at the Casino (Eden Musee), continue to improve, and it is now one of the best organizations of the kind in the country.—Clarence Dickinson is giving a series of organ recitals at

Chnrch of the Messiah.

The Chicago Orchestra inaugnrated its second regular season at the Anditorium October 23 with a popular program. The new season hids fair to eclipse its predecessor in every respect. New and talented musicians have been engaged for the leading violins, special attention will be given to the quality of the symphony programs, and fifteen concerts are announced for the

The first symphony concert was given on the afternoon of October 28, and will be continued on the evening of the 29th.



THOMAS W. KEENE, AS "RICHARD III," AT M'VICKER'S THEATER, CHICAGO.

The report of the select committee appointed by the House of Commons to inquire into matters relating to the licensing and regulating of theaters and places of entertainment has been issued. They do not snggest any alteration in the management of such places hy public anthorities in the provinces, or in Scotland or Ireland. With regard to London, they recommend that a standing arbitrator be attached to the Office of Works, to whom any dispute on structural matters be referred. They do not concur with the desire of the London Council to act as the licensing ority of London theaters, evidence showing that the jurisdiction of the Lord Chamberlain, as at presen existing, gives entire satisfaction. They suggest that the licensing authority for London music halls should be a small standing joint committee of the County Council and of Quarter Sessions. They also recommend that in theaters of varieties it be made lawful to present those performances commonly called sketches, under restrictions set forth in the report.

FOREIGN.

GREAT BRITAIN AND IRELAND .- An anti-Catholic association in London will present a petition to Queen Victoria asking her to refuse to confirm the selection of Aldermen Stewart Knill as Lord-Mayor of London because he is a Catholic. The petitioners will probably be snubbed.-Mr. Gladstone's majority in the House of Commons has been reduced to thirty-nine by the defeat of his candidate, Mr. Harry Lauson, in one of the divisions of Gloucestershire, England.—Thomas Neill, said to be an American, is on trial in London on the charge of murdering four unfortunate girls by administering poison to them .- At a meeting in Manchester, England, of cotton operatives, representing the whole cotton trade of England, it was resolved to resist the reduction of 5 per.cent in wages, and that all members of the Cotton Operatives' Union should go on strike on November 5 unless the reduction was rescinded .-English cattle breeders advocate a bill providing for quarantining all live stock except such as are intended for slanghter. The movement is understood to be directed chiefly against American cattle.—Owing to increasing competition, the copper spelter works of Pascoe and Grenfelt, at Swansea, Wales, established a century ago, it is reported, will he wound up. The closing of the works will throw 700 persons out of employment.

France.—Trouble is feared at Carmanx, France, where the coal miners and glass-workers have heen on a strike for some time. A political aspect has been given the trouble, and many memhers of the Chamber of Deputies who are in sympathy with the strikers are now in Carmaux—Paul Déroulède, the noted Bonlangist member of the Chamber of Deputies, is seriously ill from an attack of cholerine.

GERMANY.—Emperor William has signed Chancellor von Csprivi's military bill, and has empowered him to dissolve the Reichstag in case it refinese to approve the measure.—An effort made by Herr Bebel, the German socialist, to organize the employés of tramway and omnibus companies in Berlin, at a midnight meeting of the men in that city, resulted in only nine men being induced to form a union.—Herr von Brandt, German minister to China, has resigned.

SOUTH AMERICA.—Senor Luis Saenz Pena has heen inangurated as President of the Argentine Republic, and hes formed his cabinet as follows: Minister of the interior, Manuel Quintana; minister of foreign affairs, Tomas Anchorena; minister of finance, Jnan Jose Romero; minister of justice and public instruction, Calisto de la Torre; minister of war and marine, Benjamine Victorica—The Venezuelan trouhlestill holds the attention of South America, though it is generally believed that the war is over and that peace will soon be restored.

MISCELLANBOUS.—Owing to the recent heavy rains, Lake Como, in Italy, has overflowed its hanks and a number of towns in the vicinity are flooded. Considerable damage is reported. Floods in the province of Genoa are growing disastrous.

THE GOVERNORSHIP OF WASHINGTON.

The term of office of the State officials of Washington is four years, and the election takes place at the same time as the vote for the National ticket. The present State officers, at the head of which is Governor E. P. Ferry, are all Republicans, as also are the Senators and Representatives in Congress. Under the new Congressional apportionment, the State is entitled to two Congressmen, giving it an electoral vote in the college of 1892 of four. The vote for Governor in 1889 was, for Ferry, Republican, 33,711, and for Semple, Democrat, 24,733. The present State Legislature is composed of interty-one Republicans and twenty-one Democrats, and though the latter have made some gains recently, as shown by local elections, the State is considered safely Republican in all its branches.

H. J. Snively, Democratic nominee for Governor, was born in Taylor county, Virginia, now West Virginia, in August, 1856, where he resided nntil he came to Washington, in 1885. He was educated at the University of Virginia and at the University of Virginia, having taken the degree of Master of Arts at the former and the degree of Bachelor of Laws at the latter. He was District Attorney of Yakima and other counties for two terms of two years each, and was a member of the last Washington Territory Code Commission, and the Democratic candidate for Attorney-General at the first State election. He was elected as Representative from Yakima county in 1890, and was a delegate to the recent National Democratic Convention at Chicago, and seconded the nomination of Cleveland.

The Republican nominee for Governor is Mr. John H. McGraw, a prominent banker of Seattle, and a native of Maine, where he was born in 1850. He is a self-made man, and a good representative of the enterprise which has developed the young State of Washington.

garden, is situated the "Parterre," a rectangle with

terraced sides, most artistically ent by winding paths

and adorned with varied groups and beds of rarel heantiful plants. In the centre stands a marble statu

neametar plants: In the centre stands a marble statue of Juno, from the antique, and round it are grouped a luxuriant array of tall foliage plants. Scattered about are a number of great-leaved paims, several graceful

Anstralian plnes-Araucerias; a variety of glossy-leaved

India-ruhher trees; immense century plants; and an infin-

itude of other botanical rarities. As a back-ground for

the Parterre, rises up one of the large greenhouses, along

the eaves of which we read an inscription peculiarly

characteristic of the spirit of Henry Shaw's thoughts

THE MISSOURI BOTANICAL GARDEN.

II.-THE GARDEN PROPER.

BY HENRY L. CLARKE.

Only a few years ago "Shaw's Garden" meant one of the most inaccessible spots sround St. Louis-ont of the way of street cars and all manner of public conveyances -hut now a well-equipped electric road goes up the gentie slope of Tower Grove avenne, with its shade trees on one side and the long, snhstantial stone wall of the garden on the other, and passes the Gateway and the Reconstructed House, stopping before the north entrance of Tower Grove Park. The Garden Gate is an imposing structure of rough gray stone, substantial in

its build, and somewhat. Grecian in its outlines, and beneath its cornice stands the official title: " Missonrl Botanical Gardeu. 1858." Within, through the irou grating of the portals, we catch a glimpse of trees, shruhs and flowers; hnt turning and looking esstward toward the city we



2. THE GATE FROM WITHIN.

3. THE GATEWAY BEFORE THE OLD MUSEUM

gaze down and through an avenue of magnificent silver maples, forming a most charming vista over a mile in A gloriousp'ace it would be to huild a spiendid houlevard, and we cannot hnt regret that it is still only a country road.

All the year long this gate is open to the public, except Sunday and ou legal holidays. This regulation Shaw himself instituted, to prevent the garden from heling overrnn hy thousands who would make it a mere p'enic ground and unavoldably do an immense amount of injury; but Shaw's will provided that on two Sundays in the year it should be opened to the public from 2 p. m. till sunset—on the first Sunday in June and the first in September. On these occasions it regularly hecomes a Mecca for St. Louisians. Last June, the gatekeeper stated, over 16,000 people, at a moderate estimate, passed under the gateway.

On either side the hroad pathway just within the gate arc immense beds of spleudld Cacti, representative specimens of over fifty species in these two heds alone, and dozens of the finely-grown plants rising ten or twelve feet high. Many of the oldest plants are veritable trees, and there is something wonderfully attractive in their grotesque and twisted forms and hristling We note with special interest a great number of odd types of Cereus, several with their great flowerhnds developed, and also huge plants of the well-known Indian fig, Opuntia Ficus-Indica, and of the cochinealhearing cactns, Opuntia cochinellifera-both these species of the same genns to which helongs our common prickly-pear. Not far from these a large circular bed of low-growing species of Mammillaria and Echino. cactus, most artistically arranged with pieces of roughhewn rock, present a remarkahly fascinating sppearance, forcibly reminding one of the arid deserts and rocky plateans of Mexico, where the Cactl inxuriate and reign supreme over harren wastes. Still other beds of these odd denizens of the New World are ranged along the walk passing northward from the gate—the whole collection filling, perhaps, over a dozen beds of various chapes and size. There are, in fact, few finer, more complete collections in existence, and there is a peculiar fitness in the location of it in the city of Dr. George Engelmann, who so indefatigably labored over this strange family of plants, and accomplished in the work more than any of his predecessors or contemporaries. He was ever an ardent patron of the gard and everything in it was always freely placed at his dis-posal. The chair of botany endowed by Shaw in Washington University received the title of the "Engelmann Professorship,"

the oldest gardener on the place, to whose especial care are intrusted the plants here preservedmany of them themselves the patrlarchs of the garden For two-and-thirty years Strobel has labored in the garden — almost since its founding — and he talks to you of the plants as if they were old and time-tried friends, and, without an effort, rolls off the names of hundreds of them with all the fervor of a typical German gardeuer. He has many reminiscences of the garden's early days and of the personal labors of Mr. Snaw. In the center of his greenhouse stands an immense screw-pine-Pandanns odorodisalma-older than the garden itself, and threatening now to raise the roof with its spreading, twisted hranches. A high b boo, a graceful Seaforthia, and a tall cocoa palm keep lt company, and have been heen lowered into pits to prevent their piercing the dome. A splendid specimeu of the broad-leaved traveler's tree of Madagascar, Ravenala Madagascariensis, is likewise one of this group, which have ontgrown all possibility of removal to the open air.

Southward from the Parterre extends the main tnrf walk, a promenade carpeted with velvety sod, passing through the portion of the garden devoted mainly to the collection of ordinarily entitivated plants, comprising ties. A stone walk leads from the end of the turf pathway through the grove of the mansolenm to the hroad lawn before the Garden Mansion, the residence of the director. Over to one side of the lawn stands the old Museum building, erected upon the suggestion of Sir William Hooker by Henry Shaw in 1858, and formerly occupied by the library and herbarium, but now containing only a heterogeneous chaos of botanical and other specimens which, it is the director's intention, will be properly assorted and mads the basis for a new and really valuable museum collection, to complete the usefulness of the garden, library and herharium in the persuance of scientific research. A number of excellent portraits of the great botanists of the century form one interesting feature of the old Museum which will be well worth preservation. In the library, too, of the Reconstructed House hangs a fine old portrait of Shaw, painted

when he was a sprightly young merchant of thirty-five.
A short distance north of "Strobel's House" is the second large conservatory, termed the "Linnman," over whose doorway stands the bast of the immortal botanist, flauked on each side respectively by the busts of Thomas Nuttall and Asa Gray, while nuder them we

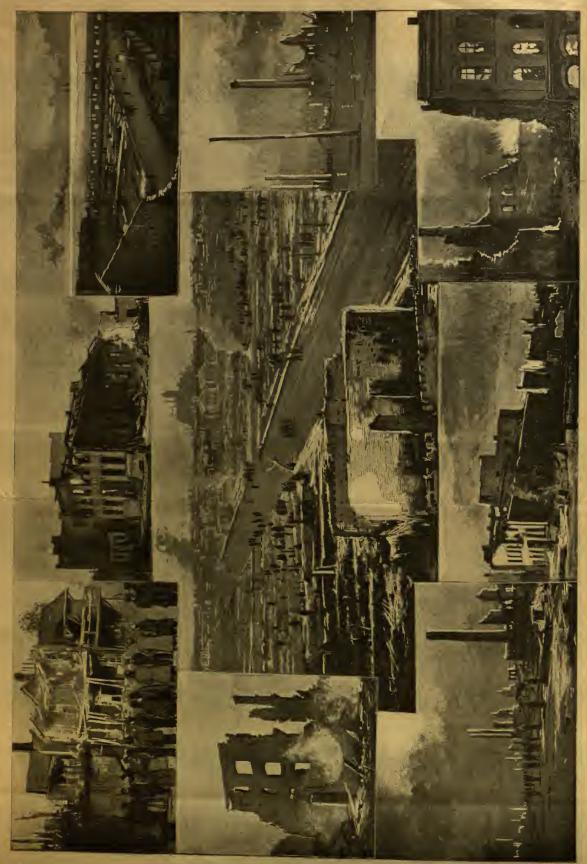
"Dedicated to Linneus, the Prince of Nature, by Dr. George Engelmann, 1881."

A midwinter view in the interior of this is given, though necessarily a photograph presents hut a meager idea of the rich and varied foliage which here pays fitting tribute to the father of modern botany. Just north of the Linnean Honse, and separated by it from the garden proper, is the Fruticetum, the old orebard and nursery. Of this, and also of the Arhoretum—the wonderful collection of forest trees—we will speak more fully in another paper. This forest lies just west of the garden proper, separated from it by a high stone wall, and is of peculiar interest to every visitor of the grounds.

For the present, let us turn to soms of the particular botanical features of the garden proper which deserves special notice, in addition to the general one thus far given. The weet garden wall is a sight worth seeing in the month of July, when it is covered with a mass of Virginia cresper and the trumpet vine, the latter brilliant with its array of fiaming scarlet blossoms three or four inches in length. Itls onr common wild flower, Tecoma radicans, but few exotics can present a more gorgeous display. Up a portion of this wall, too, are trained soms inxnriant plants of the fig of commerce, Flous carica-finelooking specimens, fifteen feet or more in height and loaded with fruit. Each winter, the director stated, the plants are taken down from the wall, iaid flat on the ground and protected with straw-this, naturally, being a tronblesome task, but making it possible to grow the tree to considerable perfection for so cold a climate. One group of plants well represented are the Agaves, popularly known as century plants. Nearly seventy specimens are grouped about the Parterre,



1. PALMS NEAR THE MAUSOLEUM 3. WINTER VIEW IN THE LINNEAR HOUSE.



most of them being large and well-grown specimens, and together they exbibit au interesting variety in their remarkable fleehy leaves—some smooth, some rough, the margins often armed with formidable spines, sometimes broad and thick and rigid, in other species round and tapering. The shades of green exhibited by the leaves are numberless, and the differing babits of the various plants are equally remarkable. So many specimens are grown in the garden that a plant in hiossom is a matter of almost yearly occurrence, though the average mortal in this part of the country is favored if be sees a century plant in bloom twice in a



THE LINNÆAN HOUSE,

lifetime. This year the Agave Salmiaua was gracious enough to send up a mighty flower-stalk twenty odd feet high, and in the mouth of July it blossomed in all its glory. Last summer, bowever, was a red-letter day in the history of the Agaves of the gardeu—a new species, presented by Dr. Engelmann, blossomed for the first time recorded in the annals of botauy, and was dnly christened, by Professor Trelease, Agave Eugelmanni—an appropriate memorial to Dr. Engelmann's masterly work ou the Agaves. Of kindred interest is the other group of plauts so characteristic of sonthwestern North America, the Ynceas, members of the royal order Liliaces. A spleudid collection of them is grouped in several beds about the grounds, including all the more important species; and bundreds of the commou variety-Yncca filameutosa-are scattered here and there among the trees and shrnbbery. Their great white spikes of bloom are the glory of the place all through the mouth of June. Some representative specimens were obtained this spring by Director Trelease iu Southern California and the adjacent regions, through which he made an extended hotanical expedition in the interest of the garden. This trip also added many valuable Cacti and several Agaves. These three groups-the Cacti, Agaves and Yucca-are espewell represented; and this we must consider most wise provision, since a field is thus offered for the study of these forms of vegetation peculiar to the barren lands of Mexico and the adjacent portion of the United States.

The genera Ficus and Musa—the figs and bananas—are tropical economics of particular interest, and many species of both are to be counted. Some snperh specimens of the India-rubber trees (Fiens Indica and F. elastica) ornament the Parterre, and a uoticeable variety is the famed Australiau bauyau (Fieus macrophylla), a plaut of which stands prominently iu the foreground in the photograph of economic plants (Fig. The collection of economic plants, for the mo part tropical, is one of the most instructive features of the garden to the average visitor. The species number several bundred and are bedded ont over a considerable area just west of Strobel's House. Winding paths twisting through the beds make it possible to show the whole unmber to advantage, and a careful examination is a profitable investment of time. To catalogue even a few of them here is bardly possible, for dozens of them are of equal interest and no satisfactory reasons could be offered for mentioning a particular few.

Many are medicinal, some deadly poison when taken
internally like the Section of the secti internally, like the Strychnos nux vomica; others are violent blood and skiu poisous, as the devil-tree of India, the saudbox, and the fahled deadly upas of Java and the ordeal-unt of Madagascar. Some are delicious edibles—the sugar cane, the pineapple and the far-famed mangosteen of Africa; still others are fiberplants, valuable timber trees, gum-bearing trees, and so ou ad infinitum.

Near the economics is a unique and fascinating group of "Biblical plants," round each of which hovers some treasured association for the Bible student or historian. Over one end of the bed sweeps a splendid



THE PARTERRE AND STROBEL'S HOUSE.

almond tree, the "tree of hastening" of
the Scriptnree (Amygdalus communis),
Beside it stands the weeping willow (Salix
Babylonica), drooping gracefully over the
mustard tree, wherein the "birds of heaven
were wont to light"—the Salvadora Persica.
Near the almond stands the mulberry
(Morus nigra), the "sycamine," and just
beside it the oft-mentioned "sycamore,"
(Ficus sycamorus). The camphor and the
pomegranate, and the beantiful "green
hay-tree" (Lanrus nohilis) stand round
the almond, and near the willow the bollyleaved oak of Palestine. The "unit-tree"
(Jngians nigra), the "Johannis brot-baum"
and the shittimwood (Acacia Senegalenis)
are bere. The oil-tree of Gethseemane and

the supposed Christ-thoru are among the collection. Side by side staud the wild and the true grape. The allspice and myrrb represent two of the "spices" of the Bible, but a less attractive plant than either of these is the stinging usettle—he who touches it too bastily is apt to rue it. Before the willow stand two beantiful plants of the "box-tree" of Isalah, the ever-verdant Buxns sempervirens, and between is the bumble hyssop "that groweth out of the wall," the insignificant little trailing vine known to botanists as Capparis rupestris.

It is particularly striking to note that all about the grounds magnificent palms are promiseconsily scattered, all growing as inxnriantly as if St. Louis was their native habitat. Especially in the grove of the manacleum are some remarkahij well-developed specimens, growing apparently indifferent to the hot, dry sunshine, which ordinarily in our climate quickly browns the leaves. They are an immense addition to the beauty of the place, and especially appreciated, because so rarely do we see them thus thriving ont-of-doors. When asked the secret of their treatment, Mr. Gurney, the bead gardener, said it was simply this: The greenbonses in which the palms were wintered were kept cool and shaded—too cool to allow them to grow. Thus, when they were carried into the open air in summer, growth immediately set in, and the leaves thus formed in the dry, open sunshine, would naturally be able to stand it after they were formed, whereas growth made in a bot, moist conservatory could not survive the change of condition. So an extremely simple principle is made to produce a much to-be-desired result.

Trees and shrube innumerable are everywhere-beautiful evergreens, indigenous and foreign; ornamental and economic trees; nearly a dozen species of magnolias of America and Enrope; and the wonderfully graceful and remarkable maiden-hair tree of Japan (the Gingko hiloba). One of these latter is now loaded down with fruit, a rare occurrence in this region. And then, too, there are hedges, hedges on every side, hedges of every description—ask the reason and the answer comes: "Shaw was an Englishman in all save his abode; a 'fine old English gentleman' through and

through."

One provision of his will has not been mentioned. It was for six constant scholarships for the training of theorem of the training t

Upou the man who holds the directorship of the garden and the Engelmann professorship in the school devolves the responsibility for the management of this entire bequest to American science made by Henry Shaw, and the experience of the past three years has proven that a wise choice was to be in the appointment of the provent that a wise choice was to be in the appointment of the provent that a wise choice was to be in the appointment of the provent that a wise choice was to be in the appointment of the provent that a wise choice was a supposite to the provent that a wise choice was a supposite to the provent that a wise choice was a supposite to the provent that a wise choice was a supposite to the part of the provent that a wise choice was a supposite to the past three provents and the provent that a wise choice was a supposite to the past three provents and the provent that a wise choice was a supposite to the past three provents and the provents are the the prov

of Professor William Trolease to fill this post. Well has be performed the duties incident upon his two fold office; and the trustees have found in him one who works in entire sympathy with all the best interests of their trust, and who shows himself to be the happy combination of a thorough scientist and an ener getic, practical business man. Uniter his able control immense improvements have been made in the condition of the garden, which, during the last years of M. Shaw's life, was somewhat neglected. These undertakings have necessitated large expenditures, but, now that they are nearing completion, it is intended to devote all possible funds toward important additions to the garden, library and herbarium. Professor Trelease is ably assisted in his efforts by Mr. J. C. Duffey in the department of borticulture, and by the head gardner, Mr. James Gurney, a man thoroughly well versed in all the branches of his work, and rendered familiar with all the trees, shrubs and floabout him by a lifetime's experience in caring for them-first, from early youth, in the Royal Garden at Kew, and for the past twenty-six years at the Missouri Garden. A skilled gardner, too, is one who was long a trusted employe of Mr. Shaw-Michael Savadil. To him is intrasted much of the responsible work about the place which requires intimate acquaintance with all the varied forms of plant-life gathered together there. The foreman, Mr. W. Page, is an energetic joung man, who recently came to the garden, and who has rendered able service in the practical management of affairs. grateful acknowledgement is due Director Trelease and his co-workers for the extreme courtesy and kindorss which they gave every possible assistance in the collecting of the necessary material for the preparation of these papers.

MUSIC AND DRAMA.

The reception accorded Dr. Antonin Dworak, who has assumed the directorship of the National Conservatory of Music in New York, was most cordial. The leading musicians of the country unite in the expression that



ANTONIN DVORAK

Dr. Dvorak is a valn able accession to the musical art of the United States. formal introduction to an American andi. ence was celebrated by the production of two new works, both Triple Overture" and the "Te Denm." The former is in three movements, either of which might stand aloue as a symphonio poem. The separate titles of the parts are -Nature, Life and

Love. As a leader, Dr. Dvorak is possessed of an excellent faculty of keeping his forces under perfect control and of obtaining the most delicate gradations of tone.—Gilmore's Band is to be continued under the same plans that were adopted by the late leader. A trip called the Colmblan tour of the band was begun ahout two weeks ago. All the principal cities will be visited. Colonel D. W. Reeves will be the conductor and Charles A. Barcher mansger. The band will be in Chleaco November 14, 15 and 16.

went on the stage at thirteen and became a star at fiteen. Mr. Gerry, of the Society for Prevention of Cruelty to Children, it is said, will use this case to show the Injury sustained by children undertaking the arduous work of theatrical life at an early age.—Sarah Bernhardt is playing in St. Petersburg, Russia.—Impe Kiraify's great spectacular production will hegin in Chicago in April next.

Local.—Lottle Collins has been at the Schiller Opera Honse this week. Charges Frohman's comedians will present "Settled ont of Contr's at the Schiller for a short engagement beginning November 21.—"A Knotty Affair" has been holding the boards at the Haymarket Theater.—"Friends Across the Potomac," which began a two weeks' engagement at Hooley's Theater on November 6, is meeting with a cordial reception. The play is a romance of the Civil War, written hy Angustus Piton and Edward M. Alfriend, and is full of striking scenes. The staging of the play is elaborate. Lovers of realism should find in this play all they demand. Two marderers and a female spy who enlist in the Union army to escape being captured provide the minor plot of the plece.—"By Proxy" has had a snecessful engagement at McVicker's Theater.—Roland Reed has been well received at the Grand Opera Honse. Hoyt's "ATrip to Chinatowu" will begin au engagement at this honse on the 20th —"All Baba" has left the Chicago Opera Honse.—Havliu's Theater will present "The Hustler" for one week, heginuing the 20th.—"Tony Farrell" is at the Windsor Theater, and will be followed by the "Spider and the Fly."

FOREIGN.

GREAT BRITAIN AND IRELAND .- The British Cahinet is nnanimous on Mr. Gladstone's home-rule scheme.— Mr. Morley, Chief Secretary for Ireland, will propose to the Cahinet to release all political prisoners in Ireland. -The President of the English Board of Agriculture refuses to repeal the probibition against the importa-tion of live cattle into England.—In consequence of the depression in the agricultural industry, English farmers are petitioning their landlords for a reduction of rent. -A hill is to be introduced into the House of Commons providing for the adoption of the American patent system.—It is believed in London that the threatened strike of cotton-spinners, which would affect 13,000,000 apindles, may be averted. — The unemployed Hebrew workingmen in London will march harefooted through the streets of the city three different days -The hallot of the Dunham miners on the subject of making an eight honrs working day compnisory by law resulted in a vote of 12,684 in favor of making eight hours compulsory, and 28,217 in opposition to an eight hours paisory, and 28,211 in opposition to an eight nours enactment.—William Watson, a young poet, who pub-lished the hest Tenuyson obituary poem, is said to be a favored candidate for the poet lanreateship of England. favored candidate for the poet intreateship of England.

—It is reported in London that the Prince of Wales and
his son, the Duke of York, will visit the Chicago Colnmhian Exposition.—Miss Cozens, a noted female suffragist, in a meeting of the Woman's Emancipation Union, advocated the use of dynamite hy women to secure a redress of their wrongs.—On and after March 3, uext, the Inman Line Steamship Company will dispatch all its vessels from Sonthampton, Eng., instead of Liver

FRANCE.—The French expedition, under Col. Dodds, has defeated the entire army of King Behanzin, of Dahomey.—A meeting of unemployed workingmen in Paris, held in the garden of the Tailleries, was so menacing in character that the police were obliged to disperse the crowd.

Germany.—Emperor William will open the Reichstag in person on Novemher 22. The army hill will first engage the attention of the hody. The Prussian Landtag, which was summoned

meet on November 9. will soou enter upon a bitter party fight on the fiscal reforms proposed by Dr. Miquel, Minister of Fi-Members of the ministerial circle declare that the government will be trinmphant in ail its policies.—The army bill provides for an increase 2,138 commissioned officers, 11,857 uon-com-missioned officers, 72,073 privates and 6,130 horses The annual expenditure for the army will be 64,-900,000 marks.—It is an nounced that negotiations for a commercial treaty between Russia and Germany will shortly be taken up again.-It is reported

that a careful canvass of the situation at Hamburg has shown 15,000 workingmen to be without employment and 8,000 small tradesmen to be financially ruined by the cholera epidemic.

Russia.—It is stated that during 1891 109,515 persons emigrated from Russia to America, as against 85,548 in 1890.—The Russian government has recently demanded that the Belgian anthorities, in issning passports to persons intending to visit Russia, shall state therein the religion of the hearer. If Belgiam complies with the domand, Belgian Hebrews will be treated to many indignities if they visit Russia. If she refuses, no Belgian passports will be accepted in Russia, and consequently no Belgians can enter that country, though the Russian demand is aimed solely at Hebrews.

MISCELLANEOUS.—The ceremony of the rededication of the restored church in Wittenberg, Saxony, to the doors of which Martin Luther uailed his famous thesis against papal indulgences, was characterized by great earnestness and enthuslasm. The Emperor of Germany and many other distinguished persons were present. Count Westerloo has been appointed Minister for For-eign Affairs in the Belgiau Cablnet.—Prime Minister Ferreira, of Portngal, was defeated in an election for members of the Chamber of Deputies of that country. -It is reported that a plan has been arranged for a pilgrimage of American Catholics to Rome next spring in celehration of the Pope's episcopal inbilee.—The wreck of the Anchor Line steamer "Ronmania," near the month of Arelto river, Portugal, resulted in the loss of 115 llves. There were 122 persons, passengers and crew, aboard and only seven were saved -A report received from Cagliari, in the island of Sardinia, states that floods on the island have destroyed 248 honses at Sans Perate, and that 100 persons are snpposed to have heen drowned.—The ravages of cholera at Chnng King, China, are appalling. The deaths there are estimated at from 30.000 to 40,000. The people going any distance from home carry tags, with the name and address thereou. Cholera is also raging at Hankow.—The Germau steamship companies have agreed uot to forward Rnsaians or Hnngarians to the United States so long as cholera exists in Russia and Hungary.

THE USES OF THE BICYCLE

To those who are enthusiastic over the many practical uses of the hicycle, the appearance of the Toledo, Ohio, Cadets in the great military parade at Chicago on the occasion of the dedicatory ceremonies of the World's Fair was a feature of much interest. They made a splendid appearance and held their places so well as to win general admiration. The trials made hy some of the Enropean armies, and those made from time to time under various conditions in this country, indicate that the wheel is to have a field of usefulness which never entered into the mind of the inventor.

In this connection the following article on "The Infinences of the Bicycle," in the Arena, will be of interest:

Far-reaching results may confidently be expected in a future by no means remote. The bicycle, with its light and graceful metallic construction, its remarkable strength in proportion to its weight, its noiseless rubher tires, both its friction and the wear and tear to the highway reduced to a minimum, contains the elements of a new type of vehicle that will come into universal use with the supplanting of animal traction hy mechanical traction, which must come with the development of electricity. Horses and other dranght animals will eventually disappear entirely from the highways, just as they are now rapidly vanishing from the street rail-Perfectly smooth pavements will foilow; first in the cities and, ultimately, on the roads everywhere, constructed upon the most perfect scientific principles, as railways now are. Freed from the destructive impact of horses' hoofs, the item of maintaining the oads will be reduced to a minimum. Street railways themselves will, perhaps, be made superfinous; for with such smooth payements mechanical traction will be practically as easy without any rails whatever.
Railways will therefore he used only for swift transit and freight transportation, and will have their own exclusive rights of way, probably hoth overhead and nnder ground. The "conductivity" of the streets, so to speak, will thus be enormously increased by the ease of motion gained from the universally smooth surfaces, together with the removal of the tramways and their obstruction to travel. Costly widenings, in cities where the streets are now too uarrow, will therefore become needless. Mnlittudes of light vehicles, of various sizes, impelled by electricity, will speed noise-lessly in every direction, and bicycles will be numbered by the thousand, their ntility for transportation, as well their value for pleasure and exercise, immensely

The effect upon the development of cities will be nothing less than revolutionary. Not only will the advance of public convenience be invaluable, but the



OOLEY'S THEATRE.

THE MISSOURI BOTANICAL GARDEN.

III.—THE ARBORETUM, FRUTICETUM AND TOWER GROVE.

BY HENRY L. CLARKE.

There is a luscions but deceptive sound in that classic title—"Fruticeinm," and a twinge of disappointment touches us when we find it means a "shrubhery" instead of a good old-fashioned orchard. Nevertheless, Shaw, tike a hroad-minded old Englishman, planted some things in this Frnticetum that justified the popular as well as the learned interpretation of its name. tion was mentioned in the last paper-jnst north of the garden proper, and cut off hy the Linnaan Honse and tail stone walls on either side thereof, over which, in several places, a loaded pear trees hang their branches, exssperating the public who must stand ontside and wonder what lies within. For this, be it understood, is the garden's sanctum, wherein step only the favored few, partly, perhaps, because the pear trees, heavyladen with delicions fruit, and the apple strewn ground might prove too tempting to the general gaze; or partly, perchance, hecanse—the management may feel a cer. tain pride in Henry Shaw's good honsekeeping; and this, the truth to tell, was one of the corners where the old gentleman was wont to plant everything and anyand then let anything grow as it pleased. wonld-be chaos was the natural consequence, and so now the task has been intrusted to Mr. J. C. Duffey, of the herticultural department, to bring order out of the confusion and establish a valuable and systematic orchard and shruhbery. The area is large, but the work is rapidly progressing, and the place has once more assumed the order and neatness characteristic of the garden. A large and varied collection of interest shruhs is being hrought together, and a number of additional fruits have heen planted, so it will hefore long become an justructive field for horticultural study. Of interest to horticulturalists also are some extended ohservations on insect pests and their extermination. made hy Mr. Dnffey during the past year or so, and still in progress. The view here given of the Fruticetum was taken from the summit of the Linnæan Honse, in line with the central walk, in the middle of which stand three representative gardeners, in all their glory and in consideration of the fact that they previously "boosted" the photographer to the level of the chimney

And now let ns thrm to the portion of the garden which is of the whole one of the most fascinating and interesting features. It is the Aboretum, a splendid forest of over twenty acres, spread over agently rolling slope, and filled with luxuriant trees of every clime. Cool, inviting shade reigns throughout it on the hottest day, and a special charm is added to the place by the appearance it presents of nature nnadorned. It was here above all other places Shaw loved hest to work, and nowhere did his work display a broader spirit of humanity, for ever, as he planted the little saplings, he would calmly say he did not hope to live to see them grow to trees—he "was planting for posterity." But his life, prolonged to venerable old age, permitted him to witness an ontcome of his labor he had not dared to

hope for. On either side the driveway near the entrance of the Arhoretum stands a superh and towering forest monarch—the pin oak—Quercns palustris. These two trees are splendid representatives of their kind—erect and firm and vigorons in every limb. There is a sense of power in a mighty oak that irresistilly attracts a dweller in the North, and these sp-cial ones would of themselves screet the attentiou of a passer-by, but hesides all this there gathers round them a memory which all the workers round the garden seem to cherish reverentially. The old gardener, Constance Strobel, had been telling of the garden's early days, when suddenly he stopped, his face beamed up—"Ah!" he exclaimed, "yon haven't seen the finest sight of all," and off he started for the Arboretum, while, in utter forget-fulness of everything, German words and English flowed indiscriminately side by side. Reaching the roadway, he pointed ont the two spreading oaks, and told how nearly two-and-thirty years ago, hack in '61, those trees had heen planted among the first in the Arboretum, and as the dirt was thrown round their roots Mr. Shaw held them up erect and firmly with his own hand. "Und jetzi see!" and sulting action to the

On every side are glorious silver maples, red maples, maples from England and Norway; tall, spreading honey-locusts; gigantic plane trees from the Levant; the alianthus of China, the gingko of Japan; elma, alders, hirches, everything—a bewildering variety. Rare forest trees from a dozen lands, ornamental shade trees, timber trees of Enrope, Siberia, and America—all are gathered together. The pines and firs and tall, symmetrical hald cypresses are everywhere. Here and there stand tall, swaying Norway poplars, and graceful Lindeus, magnolias, and giant tully trees. And so the ennmeration might be continued, if there were anght to gain hy cataloguing. The student who is looking for a place to study the philosophy of trees need look no further if he once iands here.

A most commendable work, that is constantly being

own hand. One of the saper short of the saper short of the saper short of the saper short of thirty years gone by, only to show that each arm must be stretched a good foot longer to make the circuit. Here truly it seemed there were "tongues in

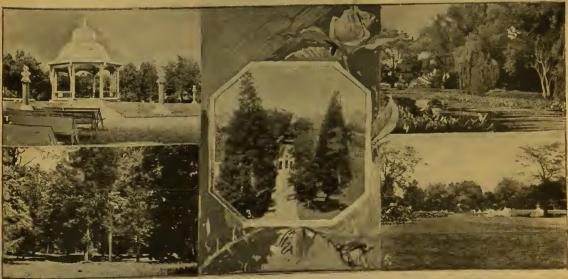
A most commendable work, that is constantly being carried on, is the careful labeling of all the specimena. It is an almost endless task, but nearly every flower and tree around the garden has been duly marked. On the trees are nailed large oval plates of "white bronze," with the name—popular and scientific—and the hahitas, stamped therein, and all the smaller plants have little squares of celluloid, fastened to wire rods, with the name in absolutely indelible ink. Nothing contributes more than this to the broad neefniness of a botanical or other scientific collection, for it opens up to even the uninitiated a means of gratifying a very neefni kind of curlosity; and, in truth, it is an inward satisfaction to even the time tried scientist to find a plant, or beast, or bird, or stone correctly named and labeled.

Last year a new and valuable feature was added to the Arboretum, in the way of a large collection of native plants, numbering about eighteen hundred species, more than the fibra (of flowering plants) of Great Britain includes. This wild garden is scattered through some seventy odd beds, placed here and there in open places or in the shade of the overhanging hranches as the species may require. In one open patch of low ground a large artificial peat-bog has been prepared, and in it dozens of varieties are luxuriating s though in their native wiids. In one corner of this bog is growing a remarkable family of insectivorous plants—four or five species of the strange order Saraceniaces—the pitcher plants, a large group of the Venus fly-trap, and the dainty little sun-dews. Near hy stands a glorious cluster of the hrilliant Cardinal flower, and scattered in different portions of the bog are cinmpe of several varieties of lady's slippers, and other native orchids. Hidden away in another secluded nook of this "forest primevai" is the "Willow Pond," a little expanse of clear, still water, grown over with white water-illies and bordered with reeds and Sagittarias. Over its margins droop graceful, melancholy weepingwillows, and at its head a lofty honey-locust rears its trunk aloft and spreads ont its beautiful, fine-cut It is intended that the wild-flower garden thus being introduced shall play an important part in certain practical botanical work Director Treiesse now has in progress-monographs on the systematic classification of various groups of North American plants. Two of these papers, already prepared hy him, have appeared Garden Reports for 1891 and 1893-one on the genus Rumex, the other on Epilohium. Such a field as is here offered for the combined study of our native forest trees and herhaceous flora is of peculiar interest to the Northern botanist, and especially appreciated by even the nuscientific observer.

In this article and the one preceeding it a general review has been made of the three divisions which make up the Botanical Garden, strictly so-called, but only a few paces therefrom lies a fourth division inseparably connected with it in thought and history, though somewhat different in character and purpose. It is the park already incidentally referred to—Tower Grove—one of the most beautifully artistic and classically adorned places of its kind, of such limited area, that any city in the land can boast of. The garden was the great public educator and scientific institution which Shaw justly realized was his crowning achievement, but to a nature such as his the park eloquently appealed as a great pleasure-ground and place of rest for the wearled masses, of rich and poor, high and low—a spot where there might come to all that unconscions elevation of thought and spirit—the broadest education—ever begotten of restful, quiet communion with the handiwork of nature, that

"glides
Into his darker musings, with a mild
And healing sympathy, that steals away
Their sharpness, ere he is aware."

So, thus viewed, a passing glance enables us to realize that Tower Grove was the pride of Shaw's heart. The idea of its founding was prohably not far removed from the conception of the garden, though nearly ten years later in being carried into execution. The ground on which the park is laid out is an ohlong strip about a mile and a half in length, and comparatively narrow, and directly adjoins the garden on the south. In 1807 Shaw donated this entire tract, of nearly three hundred acres, to the city of St. Lonis, on condition that the city



1. MUSIO STAND-BUSTS OF BESTHOVEN AND WAGNES IN POREGROUND

4. THE WILLOW POND.

2. AMONG THE TEES. 3. THE THE POND AND VINE-COVERED BUINS.





GROVER CLEVELAND

THE PRESIDENTIAL ELECTION OF 1892.

The result of the National election presents a condition which was wholly nnexpected by the wisest political leaders of all parties.

For a long time, with a single exception, the responsibilities of Federal government and National legislation have been divided hetween the Republican and Domocratic parties. The exception was during the Fifty-first Congress, when the Republicans controlled both branches of the Federal legislature and President Harrison was elected Chief Executive. The policy of the party was then permitted to be put into practice, and its principle of protective tariff duties found expression in the measure known as the McKinley hill.

Nearly three years have elapsed since the enactment

Nearly three years have elapsed since the enactment of this law, and an appeal to the country has resulted in a great victory for its opponents. The Democratio party have triumphed in the election of members to the Honse of Representatives, and will have an overwhelming majority in that body.

ing majority in that body.

The electoral college for 1892 contains 444 votes, making 223 necessary to a choice. The result of the election by States is as follows:

-4			
States.	Harri- son.	Cleve- land.	Weaver
Alabama	9	11 8	
Colorado	,	6 8	4
Fiorida		13	3
Illinois Indiana Iowa	13	24 15	
Kansas Kentucky Louisiana	6-	18	10
Maine. Maryland Massachusetts Michigan	15	8	
Minnesota	9	9 17	
Montana Nebraska Nevada	38		3
New Hampshire	4	10 36 11	
OhioOregon	28	11	3
Pennsylvania Rhode Island South Carolina	32. 4	9	
South Dakota Tennessee Texas	4	12 15	
Vermont Virginia Washington West Virginia	4	19	
Wisconsin	8	12	
Total	158	267	24

In the Senate they are assured of the return of party men in the place of all Democrats whose terms of office expire with the close of the present Con rees. The result of the election in the States of New York, Connecticut, Wisconsin, Montana and California insures the election of a Democrat from those States to succeed Senators Hiscock, Hawley, Sawyer, Sanders and Felton—R. publicans. This will increase the Democratic membership in the senate to 44. In addition to these five,



JAMES B. WEAVER.

the Republicans also lose Senators in Nehraska, Nevada North Dakota and Kansas, where Senators Paddock, Stewart, Casey and Perkins will be succeeded by Populists. This will reduce the Republican representation to 40 members, four less than the Democratic, and place the balance of power in the hands of the third party, which will haye six representatives in the upper branch of Congress. In the lower house the membership stands 220 Democrate, 128 Republicans and 11 People's party representatives. The delegates from the Territories and three to the Democratic column and one to the Republican representation. The Democratic party, it will therefore be seen, notwithstanding its success in the recent contest, will not have complete control of the Federal Government.

The Prohibitionist vote was in no case a prominent factor and did not reach the figures which were claimed for it by the party managers.

for it by the party managers.

The electoral vote of Michigan, which nnder the new law divides the State's representation in the electorial college acording to the majority vote of congressional districts, has, owing to the general result, been of no special importance, and it may be expected that with the Repnhilcans again in control of the State Legislature the act will be repealed and the method of selecting presidential electors again be made uniform in all the States.



THE "HERALD'S" RED LIGHT.

The success of the Populists in the States of Colorado, North Dakota and Kanasa was a great surprise. Novada had been conceeded to Mr. Weaver some time before the election, hat little credence had been put in the claim made to the electorial vote of other States. The result is the effect of the fusion policy, as combinations were made between the Populists and Democrats embacing some part of the ticket, State or National in each case. In some instances, notably in Sonth Dakota and Minnessota, fusion failed to accomplish anything. In the Sonthern States the fusion of Republicans with the People's party was unsuccessful in every case. The claims of the third party regarding the South were unsubstantiated, and in no State except Texas did the vote cast for the Weaver electors reach anything like a respectable percentage of the total vote.

Visitors to the Fifty-third Congress will miss several familiar figures in both houses. In the Senate the venerable Henry L. Dawes, of Massachnestts, who sno-eceded to the seat of Charles Summer, eighteen years ago, will retire, to be followed, it is understood, hy Congressman Henry Cabot Lodge, one of the most accomplished members in the House of Representatives. Senator Frank Hiscock, of New York, will be succeeded by a Democrat; several names are mentioned, the most prominent of which is Carl Schurz, the noted mugwump who has done so much to secure Mr. Cieveland's election. Mr. Schurz is a gentleman of wide experience and high attainments. The other possible successors to Mr. Hiscock are Edward Murphy, Jr., chalrman of the



BENJAMIN HARRISON

New York State Democratic committee, and Congressman W. Bourke Cockran. It is thought that Mr. Murphy's chances of election are the best. General Joseph R. Hawley, of Connectiont, who has for twelve veers been one of the most useful members and striking personalities in the Senate, will be succeeded by a Democratic member; there is no avowed candidate for the office. Senator Sawyer, of Wisconsin, who has served two terms, will be followed by a Democrat. The most prominently mentioned candidates for Mr. Sawyer's seat are General Bragg, long the leader of the Democracy of Wisconsin, and Congressman John L. Mitchell, who was chairman of the Congressional campaign committee in the recent campaign. The Nehraska Legislature is controlled by the representatives of the People's party, and Senator Paddock, who has won a wide repu-tation through his pure food hill, will be succeeded by The People's party control the Senatorship a Populist. in Nevada, hnt it is generally believed that Senator Stewart will be re-elected because of his advocacy of

In California and North Dakota, where Senator Felton will be followed by a Democrat and Senator Casey by a representative of the People's party, there are no prominent candidates for the office. In New Jersey, Senator Blodgett, it is believed, will have a strong opponent for re-election in Governor Abbett. Senator Gray, of Delaware; Turple, of Indiana; Stockhridge, of Michigan; Davis, of Minnesota; Fanlkner, of West Virginia, and Warren, of Wyoning, will probably he returned without opposition. In Tennessee, Senator Bate will be opposed, as will also Senator Pasco, of Florida, and Senator Allen, of Washington. The People's party has had better success in Kansas than in any other State, as by the result of the recent election they will have the two Senators and two Representatives.

In the lower honse there will be missed Congressman Herbert, of Alabama, who has so long been the leading member of the Naval committee of the House, and who had come to be looked upon as anthority upon all branches of naval improvement; Congressman Blount, of Georgia, who has been the most prominent member of the House Foreign Affairs committee; Congressman Formey, of the Committee on Appropriations, and one of the best informed members of the body on the improvement of rivers and harhors; Judge Taylor, of Ohlo, who has for so long a time occupied a prominent place on the Judiciary committee. Among the new members will be the familiar face of ex-Congressman Joseph G. Cannon, of the Fifteenth Illinois district.

It is asserted by some that there will be strong oppositlon among the Democratic members to the re-election of Speaker Crisp. The friends of Senator Mills, it is said, will make an effort to elect a representative of their faction. Mr. Cleveland, it is understood, was favorable to Mr. Mills' candidacy for the speakership, and it is presumed that his influence will be exerted to secure the election of a Milis man. The most prominent candidate of this wing of the Democracy is Benton McMillan, of Tennessee. In the eyent of the defeat of Mr. Crisp, however, it is more probable that either Mr. Springer, of Illinois, or Mr. Wilson, of West Virginia, will succeed to the honor. Both of the latter gentlemen, while pronounced in their advocacy of a reduction tariff dnties, are recognized as conservative, and favorable to a gradual revision of the laws rather than a general reduction, such as was contemplated in the Mills hill. Mr. Wilson may he said to be the most probable candidate for the speakership in the event of a determination to defeat Mr. Crisp.



JOHN BIDWELL

NOVEMBER 19, 1892.1

ariller



should appropriate proper funds for its improvement and maintenance as a public park forever. The value of the gift was over three bundred thousan ddollars, and the

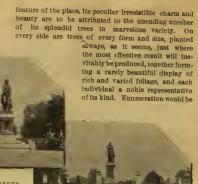
city met the proviso with an appropriation oi \$660,000 for improvements, and an annual income of \$25,000. Thus within three years a bare and treeless waste of undulating meadow was transformed into a verdant park. Shaw's interest in the park grow as the years rolled on, and constantly he watched for opportunities to add to its perfection. Out of the Arboretum of the garden came over 20,000 trees to heantify it, and the appreciation of the landscape gardening was placed in the experienced bands of Mr. Gurney. Mr. Shaw bimself was one of the Board of Commissioners, and also, after his death, the director who now fills his place at the garden.

VON HUMBOLDT

Down the center of the park for about two-thirds Its length runs a broad honlevard from the great eastern entrance way on Grand avenue to the statue of Shake speare over a mile to the west, straight as the hee fites. In one place it is broken by a large circular greensward, ornamented with trees, where stands the statue of Hnmholdt, facing the Shakespeare three bundred yards or so to the west. And where the honlevard spreads ont before the eastern entrance stands forth the Colnmbus bronze, having as its hackground the imposing Gateway with its artistic iron-work and four masslve columns of limestone and granite, spread far apart, the outer full eighty yards from one another, and each surmounted with a cronching lion of hronze, and tbe inner each crowned by a mighty dragon. At the west end, also, of the park, is an imposing gateway, and one on the north side, toward the garden, and a fourth on the south. Round about the whole there runs a graceful picket fence with an inner bedge of Arbor and at the several gateways are ornamental bnildings for the gatekeepers, police, snperintendents, etc., and likewise greenhonses and pavilions. On each side the bonlevard, twining through the lawns of ricbest sod, planted everywhere with myriad trees, are winding paths and driveways. Here and there, bordering the paths, are splendid hedges that would inspire an English soul, and in one corner is a lahyrinth of hedges with a central summer honse, inaccessible to all save the patient mortal who will nnravel the mazes of the path, a most fascinating place to meander round for half an hour without getting anywhere. Still there is nniqueness in the idea, and the system of beantifully trimmed and cared-for hedge-rows are a credit to the gardener's skill. In a broad lawn eastward from the Shakespeare lies the pond with its central fornitain and vine-covered rains round its edge. These rains are the relics of the old Lindeli Hotel, of St. Lonis, which have been brongbt ont and arranged with wonderfully pictnresque effect. Near hy are several great ponds of Egyptian lotns, gorgeons in their array of rose-tinted blossoms. A hnge bed of foliage plants adorns the lawn, and in the foreground of the view we give (Fig. 5) tower a mighty honey-loonst and a glorions silver-maple. In still another open space farther to the east is the Music Stand, a gracefni structure where every Sunday afteruoon, in accord with a provision of Henry Shaw, an orcbestra of skilled musicians render a carefully selected programme to the hundreds who gather in the surrounding grove and carriage concourse. A broad stretch of turf sweeps round the stand, and on each of its four sides rises two shafts of polished granite, six out of the eight surmounted by marble hasts of great composers, chiseled by masters—Gounod and Verdi, Mozart and Rossini, Beethoven and Wagner—all gazing ont npon the assembled people of every class and station, who gather there each week to hear the strains which often lift the soni above the sordid cares of daily life to better, nobler thoughts and aspirations. What wonder is it that Shaw found no greater pleasure than his weekly visit to these concerts that were the ontcome of

his hroad philanthropy?

But as we wander through the paths and lawns and groves, the realization flashes over us that the striking



THE COLUMBUS BRONZE STATUE.

necless—impossible here—but it will suffice to say that of decidnons species much over 150 might be counted, and of evergreens fully a third as many mcre. Thus, hoth in number and the character of the types, the collection is truly a remarkable one, and such as only a peculiarly favorable cilimate could support.

A passing mention has been made of the great statutes

A passing mention has been made of the greatstatures of Hnmholdt, Shakespeare and Columbns; hut, since artistically and classically they are the crowning glory of the park, to each is due a special notice. These three stipendous bronzes are of themselves sufficient to immortalize the munificence of their donor, even were he not also the founder of the splendid setting in which they are placed. There they stand anyneme together: the inspired discoverer, the undannted naturalist and traveler, and the sublime poet—masterpieces from the hand of Ferdinand von Miller—all glants in size and raleed on imposing pedestals of granite ful fifteen feet in height. On the four sides of the massive cube of granite that forms the main part of each pedestal are chiseled inscriptions, or hronze has-reliefs, appropriate to the man of genius who rises above.



At the west end of the long main honievard, looking toward the east, standa the majestic Shakespeare, the head erect, the bearing conrtly. and about the whole a lofty dignity of pose that impresses the mind, and on the hronze work at the feet we read Ben Jonson's enlogy:
"He was not of an sge hnt for all time." Below, npon three sides of the granite block are hronze re liefs of Queen Kathorine; Lady Macbeth, hannted by ber crime; and Hamlet gazing on the skil the grave-digg raises to his view bnt on the fourth and eastern face, most prominent of all. stands ont the joliy figure of the old St. Lonis actor, Ben De Bar, as Falstaff.

Odd, perhaps, this choice may strike us, for though be was an excellent actor, there have heem many greater; hnt once old Mr. Sbaw explained the reason for it in one terse sentence thoroughly characteristic of all bis deeds. Remonstrated the old actor and manager, Mr. Ladlow: "Why, Mr. Shaw, yoon have honored Ben DeBar as Garrick and Siddons have uever been honored!" "True, perhaps," came the response, "from a professional point of view, but I am Indebted to DeBar for a great many very pleasant hours, and am glad of the opportunity to partially repay that debt." Those who know how intensely Shaw enjoyed a good bit of classic comedy can well appreciate the spirit of this uniquely-placed memorial; Indeed, there is about it a world of meaning a Garrick or a Siddons would have lacked.

Just behind the pedestal, and a dozen paces from it, there stands a beantifully-grown little mulberry tree, round which there is perpetuated a fascinating reminis-cence. It was in the March of 1880 that Adelaide Neilson. the incomparable Juliet," visited St. Louis for the last time and drove to Tower Grove to see the Shakespeare. Reverentially she stood before it, walked about viewed it from this side and that, and, nodding her head, thoughtfully exclaimed: "Old fellow, you have done a great deal for me—a great deal for me!" Asked what she thought of it, she declared that she had "seen every Shakespeare memorial of any consequence, public and private, in existence, and this one is decidedly the finest." Then someone suggested that, when she re-turned to England, she send a slip of the Shakespeare mnlberry in Stratford-on Avon, to be planted near hy as a memento of her visit. Gladly she consented, and, pacing off a short distance from the pedestal, she turned her little hoot-heel in the sod. "Plant it here," she said. But nutimely fate prevented ber from ever again seeing the shores of England; so, after her death, Mr. Shaw planted, on the spot she marked, a slip from one of his own choicest mulberries, and now it is growing np into a stately tree, a living monument to the play-wright and the player, while a marble tablet at its foot recalls the little jucident.

Several hundred yards to the east, looking westward down the boulevard toward the Shakespeare, rises the imposing Humboldt—of the three great masterpieces probably the masterpiece, the crowning tributs to the seniptor's skill. In every lineament of countenance and detail of form and dress is faultiese accuracy, and in the stately, restful poise of all the features can be read at once the thoughtful reverie of the philosopher, the keen observance of the naturalist, and the broad contemplation of the traveler, as if he stood upon a mountain top and was gazing down npon some far-spreading landscape. The niece of Humboldt saw the figure in Munich, and in thanking Shaw for the high bonor to her family, declared that neither Europe nor America had done anything for the great naturalist comparable to it. On the front face of the pedestal is the simple name, eloquent in itself: Alexander von Humboldt. The opposite face bears the inscription: "In honor of the most accomplished traveler of this or any other age. Erected by Henry Shaw in 1870." Of the other two sides, one bears in relief a view in the valley of the Amazon, the other a view of the volcano Chimborazo, whose lofty summit the dauntless explorer was the first to gain. Thus wrote Thomas E. Garrett—

"Humboldt and Shakespeare in one vista rise —
Explorers of untrodden ways —untaught!
The one, by conquest, made the earth man's prize,
The other crystallized the world of thought.

In Shakespeare's presence Nellson bowed this knee-} Here later pilgrims come to honor her; —And bere the poet's own memorial tree Recalls sweet Juliet's best interpreter."

Far down the tree-bordered avenne, before the eastern gate, stands out in all its power the mighty figure of Colimbius, acknowledged the finest monmental statue the world has ever reared to him. It stands with firmly-planted feet, like a mariner npon a storm-tossed deek, in one hand an nnrolled chart, one limh advanced from under the flowing mantel, and the determined face looking toward the west, where lay the goal of all bis bopes and aspirations. Below, two reliefs picture the explorer at the prow of the "Santa Maria," and La Saile on the Mississippi; a third bears the words: "The XIXth Century to Christopher Colimbius;" and the fourth presents one laconic sentence, dequent in praise: "To the discoverer of a new world!"

Thus these three memorials have become a vital part of the hroad educational system embraced in the garden and park, for practically garden and park are one in purpose as well as origin. The park's usefulness, it is intended, shall soon be broadened by the careful naming of its trees and shrubbery—in fact, as has been said, it is in respect to these features a botanical garden now; and also we may look for constant and steady improvements and additions in the garden proper. Many are now in view and others will continually present themselves.

Seldom, truly, has onr country seen a man dispose of a private fortune—large, yet far less than hundreds of bis fellow-citizens possessed—with such broad-spirited purpose and far-seeing jindgment as did Henry Shaw. The three-fold monument stands before us: A great botanical garden in the interest of American science; Tower Grove Park, with all its rare beanty, for the masses of a great oty; and in this park a grand memorial to each of three men who are counted as the benefactors of no single land or people, but of all mankind.

The eminent scientist, Professor C. A. Young, expresses the opinion that the most important progress made recently in solar spectroscope is Rowland's comparison of the solar spectrum with the spectra of ORI BOTAN various chemical elements, made with inspection of the solar spectrum with the spectra of ORI BOTAN various chemical elements, made with inspection of Elivery so much greater power than was formers.

THE CITY OF LYONS.

Lyons, the second city of the French republic in political, commercial, industrial and military importance as well as in point of population, has many features of interest for the European tourist, and stands second in this respect only to Paris. The city is the chief town of the department of Rhone, the seat of a court of appeal, of a military government, and a fortified place. It is situated at the confinence of the Rhone and Saone, and has an aittinde above the sea of from 500 to 1,000 feet. Where it enters Lyons, the Saone has on its right the faubourg of Valse and on its left that of Serin, whence the ascent is made to the top of the hill of Croix-Ronsse, The river next takes a semicircular sweep around the



NOTRE DAME DE FOURVIERES.

hill of Fourvieres, 410 feet above it, which is fully occupied by convents, hospitals and seminaries, and has at its summit the famous church, the resort of 1,500,000 pilgrims annually. From this point the best view of the entire city is obtained. First the husy saone is seen with its thirteen hridges and animated guays. Next on the peninsula between the two givers at the foot of the hill of Croix-Rousse e. me the ideal quarters of the town: the Terreaux, containing the hotel de ville, the prefectore, and the chief commercial



PLACE BELLECOUR

establishments. Belleconr with its large open square, one of the finest in Europe, and the aristocratic Quartier de Perrache. The Rhone and Saone formerly met here, till a hundred years ago the sculptor Perrache reclaimed from the rivers the quarter which bears his name; on the peninsula thus formed stands the principal railway station.

cipal railway station.

Of the ancient buildings in Lyons, Fonrvieres is the one which attracts most visitors. It derives its name from the ancient forum (Forum vetns), whose site it occupies. The first chapel, dedicated to the Virgin, was created in the end of the ninth century. Consecrated afterwards to St. Thomas of Canterbury, and then made a collegiate church, Notre Dame de Fourvieres was created superior of twenty-five villages by Louis XI, on the occasion of his visit in 1478. Laid waste by the Protestants, plundered at the revolution, the began to be visite? see in in 1894, and in 1835. Pope Plus VII., returning from the coronation of Napoleon, ascended thither to give his benediction to the city—a ceremony which is renewed from year to year with

great pomp. The church tower, 172 feet high, is surmonnted by a statue of the Virgin in gilded bronze, eighteen feet high, turned towards the town; on the pedestal are bronze plates, with inscriptions assigning to the Virgin the credit of ending the plague of 1643 and of preserving the town during the cholera epidemics of 1832, 1835 and 1850.

Northward from Fourvieres appear the green slopes of Mont d'Or descending toward the Saone hy pleasant glades sprinkled with villas; to the east, beyond a somewhat monotonous plain, stretch the mountains of Savoy and Danphine; to the sonth, below the confidence of the Rhone and the Saone, the river traverses a rich landscape to pass ont of sight at the foot of Mont Pilat; and to the west the horizon is honnded by the Forex hills.

The Place Ballacers is along a green descending the strength of the strengt

The Place Belleconr is adorned west and east by two nerronata, facades originally erected after plans by Mansard, but destroyed in 1793, and rebuilt under the consulate in a somewhat modified style. In the middle stands an equestrian statue of Louis XIV., by Lemot.



PANORAMIC VIEW OF THE CITY OF LYONS.