THE TRUE WITNESS AND CATHOLIC CHRONICLE.

FOREIGN INTELLIGENCE:

FRANCE.

"A Council of War has assembled at the Tuileries, under the presidency of the Emperor.

"It is composed of the following members:-The Emperor, the Prince Napoleon, the Duke of Cambridge, Prince Jerome Napoleon, Lord Cowley, Sir Edmund Lyons, Admiral Dundas, Sir Richard Airey, Sir Harry Jones, General della Marmora, Marshal neral Bosquet, General Niel, General Martimprey Admiral Hamelin, Admiral de la Graniere, and Admiral Penaud."

The object of the Council is to collect, to interchange, and consider all possible information with respect to the war in every quarter; but it will not be in the province of the Council to plan campaigns or to decide in the beginning of January what is to to the belief that his Majesty Victor Emanuel, yieldbe done in April. The Council having deliberated ing to the representations of his councillors, has defully on the important subjects which will suggest cided to contract a marriage, the political results of themselves to them will communicate the results of their labors to their respective Governments, who not know whether or not there may be any mistake will discuss the questions which may be raised, and in the interpretation of the preparations going on at having decided them will give the orders necessary to secure the objects they may have in contemplation.

GERMAN POWERS.

A telegraphic despatch from Berlin declares that Count Nesselrode has confidentially declared to M. De Seebach that, in his opinion, Russia had made, in ought to do so, considering the hubbub of the adverher declaration of the 22nd December, the furthest tisements about it, entitled "Inside Sevastopol." Its concession that she could make.

Guzette writes on the 1st ult.: -" The hope of certainly as now given by the author (name unknown), peace raised by Count Esterhazy's mission have suddenly disappeared. No one knows why. The accumulation of large bodies of troops in Bessarabia is more discreditable than had been suspected, even regarded as a proof that Russia will energetically after the first accounts, as to the muddling in the oppose any diminution of territory."

Private St. Petersburg advices of 29th December mention Esterhazy's arrival, and the question of an ultimatum was the subject of universal talk and of all kinds of rumors. It was understood that no answer was to be given for fifteen days, and a Council of the Empire was to be appointed to examine and discuss the propositions. These letters confirm the disfavor with which Austria, at the present time, is professedly regarded. All classes, even including the peasants, indulge in invectives and sarcasms against her. The activity of the overland transit trade is said to have increased; and, owing to the extraordinary number of horses employed in bringing imports from the Russian frontier, the carriage back from St. Petersburg to Kowno had fallen to £6 per ton for hemp, flax, and tailow. Government had contracted for 3,000 tons of lead; its price had greatly fallen. This article and sulphur were imported through Prussia, with no apparent interruption, to the astonishment of the Russians. Some of the principal merchants expect that the overland trade must at last be stopped. Weather very mild. Goods were being sent to Archangel, in hopes of shipment, before the arrival of the blockading ships in the Baltic. Navigation has been resumed at some points. A steamer was to leave Travamunde for Revel on December 30th, and take goods thence to Imbec.

fication and another conference; but the Times the occurrence on the spot, "we saw their officers

whelmed by the intelligence. The Czar coolly sharpshooting with the scanty garrison which lurked examine the collision with the carth, whelmed by the intelligence. The Czar coolly sharpshooting with the scanty garrison which lurked examine the eclipse of the sun and moons the traverses. The fresh army of enemies the coast, and waits to enjoy the spectacle of England did what we ought to have done; they charged with she throws a shadow over part of the earth French army that Great Britain would once again over into the crowded trenches; and the poor innolay all the burthen of this fresh expedition. Now cent babies, who didn't know a bayonet for a musket, we are of opinion that the French government, a and were no more fit to act, soldiers than parsons, better judge than England of everything connected were cut up by balls and splinters, and were got out with military operations, would look twice before as quickly as possible." it ventured on so difficult and formidable an enterprise. It seems to us besides that the French have been for selves completely out of her debt."-Nation.

SWEDEN.

PREPARATIONS FOR WAR .- The Swedish journal Fuedrelandet reports, under date Stockholm, December 24th:- "Activity unexampled reigns in every manufactory for producing articles necessary to the equipment of an army. The colonels of all the regiments have received orders to supply their secretly, but it was in its nature impossible of conto take an active part therein."

SARDINIA AND ENGLAND .- A letter from Genoa, of January 2, in the Constitutionnel, says :- " Preparations making at the Royal Palace at Turin lead which will be of the highest importance. We do the Palace, but if his Majesty should act upon the desires of his ministry, his marriage will be the result of his recent visit to London."

NEW VERSION OF THE REDAN AFFAIR. - A pre-

tentions work has just appeared, a large octavo volume, which was expected to make a noise, and chief feature was announced as being a new, and the The Vienna correspondent of the Frankfort Post only true, version of the affair at the Redan; and who gathered it from various spectators of and participators in the transaction, it wears an aspect far trenches, refusal of officers to lead, and of men to be lead, and all the rest of it. Why these first accounts were subsequently attempted to be explained away has never been understood; but it would appear that they fell infinitely short of the disgraceful reality, and that the excuses offered only deepen the contempt of the French for the authors of the disaster and those who would extenuate it. The author is rather chary of giving names of officers incriminated, and even regiments principally obnoxious to censure he leaves blank; but he is minute and circumstantial enough has to the nature of the deplorable blundering, and as to the exhibition of a peculiar motion that is happily rarely displayed by British soldiers in face of an enemy. It would seem that there is an entire misconcention in this country as to the chasisting of 500 men, ran along the open space easily enough, and with small loss, all the talk about being mowed down wholesale being mere balderdash, as applied to the first part of the operation, though true enough as regarded the fatal finale. Entering the Redan was a facile operation :- That done, two di-

> This volume explains, for the first time, at least to the public car, why our Allies have been so censori-

dangerous than happily it has yet become. Tender topic this to touch upon, but one remarkably inviting, nevertheless, as improper things so generally are. Contrary to the impression universally prevalent here, the attack on the Redan was in no way a feint, except in the bitter pleasantry of the faint-heartedness that distinguished it. So far from its being intended troops with everything necessary to prepare them for "a diversion of the Russians while the French for marching at the first signal. The order was given assailed the Malakoff," it was an integral part and parcel of the same operation, and essential to its Vaillant, Count Walewski, General Cancobert, Ge- cealment. All leaves of absence to officers are re- completion. Because the attack on the Redan failed, fused. Everybody here believes that in case the and failed so ignominiously the capture of the Maallies should open the war with vigor in the Baltic lakoff led merely to the possession of the "blood next spring, our government will feel itself compelled stained ruins" of South Sebastopol, which cannot even be retained because of the dominating lire of the north forts; whereas, had the English succeeded, the whole garrison must have laid down their arms, or been destroyed:-there was no possibility of escape. This is shown in the volume clearly to be the case; but it is not so shown by any ex post facto evidence. It appears it was well understood at the time, entered into Pelissier's calculations, and his arrangements were planned in accordance with the supposition that the Redan would be carried. So entirely was this the case that the Marshal who, from his position at the Malakoff, could see our repulse at the Redan, no sooner observed the Russians begin to retreat across the harbor, than he sent word to that effect to Simpson, clearly an invitation, if not a good, to the renewal of the assault. But Simpson was too intent on his toothache, or lumbago, or tie doloureux, or chilblains, or chicken-pock, or whatever to-be-coddled complaint was the matter with him; and remained deaf as a gurnet to the summons. Gortschakoff got off and we all know what has come on since. The author assures us that not only is this the conviction of every British officer competent to form, and candid enough to express an opinion, but he adds :-" I have spoken to at least twenty Frenchmen on the same subject. They will subscribe to any theory, and join in any compliment to the British arms; they will even politely deplore the freedom with which our generals are criticised by our press; but they are always faithful to two impressions-first, that there were great faults committed on the Sth of September; and, secondly, that if the Redan were taken simultaneously with the Malakoff, the Russian army must have capitulated or been destroyed."-Correspondent of the Liverpool Albion.

SECOND LECTURE ON ASTRONOMY,

BY MR. EDWARD MURPHY, BEFORE ST. PATRICK'S SOCIETY.

(From the Pilot.)

Mr. Murphy delivered his second lecture on Astronomy, entire misconception in this country as to the character of the assault on the Redan. The work was easily enough carried in the first instance, there being exceeding few Russians in it—not above thirty! Their fire was very feeble; the storming party, could recome the speaker commenced his remarks by a course recommenced his remarks by a course recommendation of the cometary worlds. Comets are like inglecture, the speaker commenced his remarks by a course round the Sun.

Here the lecturer be diversing and addression; and addression; and addression; and addression; and addression; and addression and addression and addression; and addression and addression and addression. bodies that move in space, and, like the planets, are under the influence of the sun's attraction. To the naked eye they appear like a star with a long streaming tail. The peculiarities which mark their flight, the suddenness with which they blaze forth, their exceeding velocity and terrific appearance, and their eccentric motions have rendered them objects of terror and dread in all ages of the world. The comets perform their revolutions in orbits of visions of the supports were marched out of the trenches; there was nothing to oppose them:—
except a few dropping shots inside, all was silent as twice they got half-way be-The Times expects from Russia neither a refusal tween the trenches and the Russian work a panic Halley's coulet, so named after the astronomer who first nor an acceptance, but such a modified counter-proseemed to seize them. They did not run away, but
position as may give rise to negotiations and enable stood still. "We saw," says one of the author's
her to play off upon us the devices of another mystimilitary informants, (himself and officer) describing

They did not run away, but
calculated its period of revolution, approaches the sun
once in 76 years, its last appearance having been in 1835.
Halley predicted, or rather precalculated the time of its
periodic revolution more than one larger and officery
officery describing trusts that such insidious overtures will be peremptorily refused.

At St. Petersburg the pacific opinion reigns in society, but it is in the minority among the masses. This division exists around the Emperor, and even in the midst of the imperial family. The Empress's mother desires the end of the war, and loses no ocmother desires the end of the war, and loses no occasion for recommending peace. The reigning Empress inclines more to the side of war. The Empression force, that even with 44,000,000 miles in length, and that of 1744 was 8,000,000 ror has not declaved himself. It is believed that he that inconsiderable body of troops, he would have hesitates before the immense responsibility of the driven then down the hill, and found time to turn the decision which is expected from him.

The telestand were in such small to be the indices to have a definite idea of the immense orbits in which these bodies revolve, we may remark that guns cityward. As to spiking the guns, he did not several of these comets whose periods of revolution occon-Among the operations designed for the ensuing season, it appears that there is to be another "grand" stition. The moment of victory passed away. The campaign in the Baltic—(everything is to be on a Russian supports came up in vast numbers:—instead approaching their aphillon or greatest distance from the great" scale for the future!)—and British journal—of finding 5,000 Englishmen on the top of the hill, Sun. Figures are useless in any attempt to recken the ists favor us with an imposing account of the improtected by the Russian guns, now turned upon mense naval preparations of England for this expedition. Possibly; yet Russia is anything but over- who had first got in, and those engaged in desultory result from their collision with the carth, he passed on to result from their collision with the carth, he passed on to

An eclipse of the sun is caused by the interposition of the body of the moon between the sun and the earth, when she throws a shadow over part of the earth; this can only and France squandering a few more millions in vain. the bayonet, drove the remnant of our 500 towards happen when the moon is in conjunction, or at the time of As for England, indeed, the Russian journals regard the parapet, and recovered the guns. These were now furned with murderous effect on the poor panical stricken devils who were standing irresolute between the proposed expedition, the trenches and the fort. They turned round and Empire:—"As we see, the frosts of the north have their own little special advantages. Then, again, who were to have supported them. After this the their own little special advantages. Then, again, who were to have supported them. After this the moon during an eclipse of the sun. This kind of Russia possesses at this moment one army in Finland, confusion was hopeless. Regiments got all mixed another in the Baltic provinces, a third in Poland, together, and no officer could find his men or men and yet a fourth in St. Petersburg and its neighbor- their officer. It was then that Windham said Send however, when it does occurrence, and its resignments got all mixed the moon during an eclipse of the sun is total only when the moon is nearest fourth in St. Petersburg and its neighbor- their officer. It was then that Windham said Send the earth at the time of its occurrence, and its consequently, is rarely seen. When it does occur the darkness lasts only many forth is rarely seen. When it does occur the darkness lasts only many forth of the sun in the moon during an eclipse of the sun. mounted in a hurry, nor can any one dream of doing officered and disciplined. The few brave straggling happens when the moon passes a little above or below the so. In any case it will not be English troops that parties that came out were only a useless sacrifice plane of the earth's orbit. The number of collipses in any can do it. It will hence be on the shoulders of the of the good men. Then the shot and shell came year cannot be less than two, and both those of the sun; French army that Great Britain would once again over into the crowded trenches; and the poor innowill be five of the sun and two of the moon. The most usual number is four in a year, two of each luminary.

An eclipse of the moon is occasioned by the interposition

of the earth between the sun and the moon. This takes place only at the time of full moon. If the moon always moved in the path of the earth she would suffer total aclipse at each full moon, but, owing to the inclination of the moon's orbit there cannot be more than three lunar two years doing England's work for her, and paying dear enough for her alliance, not to consider themcolves completely out of her debt."—Nation. official interference from imperial quarters to prevent that consure being a good deal more marked and siderably larger than the moon, the eclipse may last for called "paralactic motion," and this is so small, that

three or four hours. A partial colipse happens when it stend of passing fally through the shadow of the earth, the moon rises a little above or sinks a little below it. By knowing exactly the distance of the moon from the earth, the width of the earth's shadow at that distance, and the rate of the moon's progress in her orbit, eclipses have been calculated accurately years before they happen.

Let me now speak for a while of the Oceanic Tides, in

which the sun and moon perform an active part. The tides are those regular movements of the sea, whereby it rises and falls on its shores twice in twenty-four hours. These tides are governed by fixed laws, and are caused by the attractive power of the sun and moon. The moon exercises a larger influence on the tides, on account of its greater proximity to the earth, the attractive power always decreasing as the distance increases. The sun raises a tide only one third the height which the moon does. The highest tides happen when the sun and moon are either in conjunction (new moon) or in opposition (full moon). These are called the Spring Tides. When the moon has half of its illuminated side turned towards the earth, we have the Neap Tides, because the sun and moon, acting in contrary directions, partially counteract each other's influence.— The tides are less high in open seas than in wide-monthed rivers opening towards the stream tide. Thus, at the mouth of the Indus, the rise and fall of the water is thirty feet. Lakes and inland sens are not subjected to tides. Air being lighter than water, astronomers are of opinion that the moon raises higher tides in the air than in

Let me now briefly speak of the great laws by which the planetary system is governed and controlled in their revolutions round the sun. The celebrated German astro-nomer, Kepler, discovered that three uniform laws governed the solar system, which has been named after him "Kepler's Laws." They are as follows.—Ist—"The Path of the planets round the sound is an eclipse, the sun being in one of the foci." By this law, combined with the second (given below) the place of any planet can be predicted at any given time. "Ind—"The angular velocity of a planet's movement in its orbit is inversely as the squares of its distance from the sun." 3rd—"The squares of the periodic times of any two planets are to goth colleges. periodic times of any two planets are to each other as the cubes of their mean distances from the sun." This last law shortens the labor of observation, as in the case of Uranus and Neptune. When their distances were found, the period of their revolution was easily determined by this law without waiting for them to go around the sun.-These planets have not been round the sun once since their discovery, and yet, immediately after their discovery, their periods of revolutions were ascertained. These laws are the bases for predicting the future courses of the planets, as also that of their satellites and the comets.

We shall now examine, in a few words, the laws of Attraction, which are the cause of, and explain, the celes-tial motions and the periods and forces by which the pla-nets are sustained. Attraction of gravitation, is the power by which bodies in general tend towards each other; this attraction is proportionate to the quantity of matter they contain. These principles were first discovered by the celebrated astronomer, Sir Isaac Newton. It is by these laws that the sun attracts the earth and all the other planets towards himself, and they, in turn, gravitate towards the sun. One of the laws of gravitationis, "that bodies attract one another with forces proportional to the quantity of matter they contain;" another law is, "that attraction decreases as the squares of the distance from the centre increases." The attractive power of the sun is, in a measure, counteracted by what is called the projectile force, which is the tendency of bodies to move in straight The union of these two forces, viz., the attractive and the projectile, gives to the planets a circular or elliptical orbit, and they are thus retained in their

Here the lecturer begged permission to make a short digression; and, addressing himself particularly to the Chairman and his countrymen present, he said that in astronomy, as well as in every other department of human knowledge, Ireland is keeping pace with the world, and in the middle ages was actually in advance of it in the science of astronomy. For we find that when the rest of Europe, through ignorance or forgetfulness, had no knowledge of the real figure of the earth, its rotundity and true formation was taught in the Irish schools. Thus as early as the eighth century, over seven hundred years before the birth of Copernicus, Feargal, an Irish priest, wrote a very learned treatise on the sphericity of the earth, and the existence of our antipodes. This Feurgal was much honored by Pepin, King of France, for his great learning. Again, in the ninth century, Dungal, the Recluse, an Irish monk, wrote, at the special request of the Emperor Charlemagne, a letter on two eclipses of the sun in 810, which shows great ability and research, and proves to us that astronomy was cultivated with great ardor by our forefathers. I could mention the names of many others, forefathers. I come mention the names of many others, but time will not permit; I shall therefore close with referring to an illustrious Irishman of the present day—the Earl of Ross. This excellent nobleman has constructed on his estate in Ireland, the largest and most magnificent telescope ever made. The tube of this monster telescope is 56 feet long and 6 feet in diameter. Some idea may be formed of its enormous size from the fact, that an ordinary sized man walked through the tube with ease and even with his umbrella spread. The construction of this instrument cost Lord Rosse nearly £20,000; and every part of it was made on his own estate, and under his Lordship's inimediate superintendence; for it is worthy of note, that Lord Rosse is a resident drish landlord, and spends his vast income among those who produce it. The wonderful power of this gigantic telescope has resolved into stars many nebula which had been previously supposed to be simply patches of luminous matter in the sky. And objects on the moon's surface, the size of our public buildings, are with this instrument distinctly seen, as it brings the moon within about 50 miles of us. With this short digression we shall resume our subject.

Let us now take a brief view of the sidereal licavens, or the regions of the fixed stars. All the heavenly bodies be-yond our system are called "fixed stars," because, with lew exceptions, they never appear to move or change their relative positions, as do the planets. The fixed stars are distinguished by their twinkling light, as the fixed stars twinkle and the planets do not. These bodies are supposed to be so many separate centres of light and heat, like our own sun; to different systems of planets. The number of fixed stars visible to the naked ove is about 1000; but, when the telescope is swept over the heavens, we see millions of stars in the firmament. The stars seen with the naked eye are divided into six different classes, according to their magnitude. The most brilliant are called stars of the first magnitude; those next in brilliancy are stars of the second magnitude, &c. By the telescope, stars are to be seen which rank as low as the sixteenth magnitude. magnitude. Some of the more conspicuous of the fixed stars, when seen through an instrument, are found to consist of two or more stars, which revolve about each other in regular periods of time, some of which extend to hundreds of years. Of these double stars, it is often found that one of them exceeds the other in brilliancy, and sometimes shines with a different colored light; some are blue, others are red, and others, again are green. Astro-nomers have mapped out the heavens into 94 constellations, of which 48 were formed by the ancients. The fixed stars are unequally scattered over the sky, and appear to us of different degrees of magnitude, but all at one distance, and to the naked eye the most distant fixed star appears no farther off than of the planets. But, by the aid of the telescope, we find that the nearest of the fixed stars is not less than 11,000 times the distance of Uranus (1,820,000,000