DIRECTORY OF THE FRATERNAL ORDERS LA GRANDE, ORE.

IL W A. La Grande camp No. 7763 meets very Monday each month at I. Q. O. . Hall. All visiting neighbors are ordially invited to attend. FRED B. CURREY, C AL JORDON, Clerk.	Foresters of America. Court Maid Liarion No. 22 meets each Wednesday night in K. of F hall. Brothers are invited to attend BEN HAISTEN, C & LEO HERRING, C. S. C. J. VANDERPOEL. F. S
O. E. S. Hope Chapter No. 13, O. E. S., old stated communications the sec- ad and fourth Wednesdays of the month. Visiting members cor- ally invited. Pauline Lederlee, W. M. Mary E. Warnick, Secretary.	A. F. & A. E. La Grande Lodge No. 41, A. F. 5 A. M., holds regular meetings first an- third Saturdays at 7:30 p. m. JNO. S. HODGIN, W. M. A. C. WILLIAMS, Secretary.
I. C. C. FEncampment. Star Encampment No. 31, I. O. O. meets every second and fourth ednesday in the month in Odd Fel- we' hall. Visiting patriarche always bloome. H. E. COOLIDGE, G. P. W. A. WORSTELL, Scribe.	Enights of Pythias. Red Cross Lodge No. 27, meets every Monday evening in Castle half (old Elik's hall). A Pythian welcom- to all visiting knights. J. F. BAKER, C. C. R. L. LINCOLN, K. of R. & S
La Grande Lodge No. 169, W. O. , meets every second and tourth tesday evening in K. of P. ball in a Corpe building all visiting mem- re welcome GRI ACKLES, Conval Commander J. H. KEENEY, Clerk L. O. O. F.—Suberdinate.	B. P. O. E. La Grande Lodge No. 453, meet cach Thursday evening at 8 o'clock in Eik's club, corner Depot street and Washington avenue. Visiting brother, are cordially invited to attend. H. E. COOLIDGE, Exalted Ruler. HUGH McCALL, Rec. Secy.
La Grande Lodge No. 16, meets in hir hall overy Saturday night. Visi- ig brothers cordially invited to at- id. Cemetery plat may be seen at "N restaurant. GEORGE GROUT, N. G I. R. SNOOK, Rec. Becy. W. A. WORSTELL, Fin Secr.	Crystal Lodge No. 50 meets every Tuesday evening in the I. O. O. F Hall. All visiting members are in- vited to attend. Mrs. Cora Fitzgerald, N. G. Miss Susan Mcl'lroy. Secretary

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By Jno. S. Hodgin.

's comet, which is beginning to sate great interest throughout the untry, and as I promised a popuarticle free from technical lanage, will say in the beginning, at I have in mind such readers as ve some general elementral knowl ge of astronomy, more especially gh school students, and to such it a pleasure to talk about someng besides "shop", if one whose cupation, generally presumed to very earthy, may aspire to disss things celestial.

Of all heavenly bodies comets have ' eated the most popular interest in the opposite direction from the d are least understood, and it is sun-being behind the comet as it tural that the return of Halley's approaches, and before it as it remet, afte an absence of 75 years cedes from the sun. The coma and ould arouse renewed interest, es- tail are seen to develope as the come discussions that have been go- A few weeks ago the Crossly Roffer less accurate and startling na- the beginning of a tail to Halley's

The comet has been in the field view of the larger telescopes for ma and tail, for it is rapidly apveral months. This comet has proaching the sun and will soon be ide 29 appearances recorded in his ry, from about 240 years B. C. are constantly changing, like the wad we have no way of determining ter of a river-what we see today is w much longer, perhaps untold nturies. Some comets return evfew years, and others require iny centuries to make a revolution ound their long eliptical orbits and turn to where the sun and earth The beautiful comet seen in doubt that Halley's comet will in the spring of 1882, just before sun- time become extinct like Ble'a's. rise, will be back in about 800 years Perhaps, to my readers, it seems 115+ and Donati's comet seen just before a contradiction to speak of the sau the Civil War was here about 150 attracting and at the same time reyears before the Christian era, and pelling, yet such is undoubtedly the will be here again abount the year case-the gravity acting on the soli i 18558, so we will have plenty of contents, and the radiation pressure

guage Comphehensible to Amateurs lestial bodies. The uncleus as it everal weeks ago I promised to approached the sun from the far off re the Observer a paper on Hal- distant parts of its orbit becomes heated o nthat side next the sun and en if it did possess polsonous gases, the coma, as if bolled out by the would accumulate in the earth's atheat, are seen issuing, and, being mosphere during its passage through driven back by the repellant influ- it would hardly be sufficient to do ence of the sun's rays, envelope the uncleus and form the coma, and being further driven off into space by that mysterious influence from the sun called radiation pressure, the gas becomes more rare, and forms the tail or tails, which sometimes ex-

tend millions of miles and assume a variety of shapes before the gas be comes visible. The tail is always Comet, and by this time, a good glass would show a considerabye coto see it? visible to the naked eye. The tails

gone tomorrow-and this constant

expulsion of matter is gradual.

diminishing the size, so that each

succeeding return will show a less in

ed bulk, until finally the whole mains

will be disintegrated, for there is not

the tall of the comet driven before lie that the undersigned have pra-It and extending millions of miles chased the Spokane beyond the comet's path, will fall La Grande, Oregon, P across the earth's path about the from the public your kind patronage time of its arrival at that point, and assuring you of the most courteous the earth will pass through the com- treatment. This restaurant is open et's tall, for the computed ephe- day and night. meris of the comet shows that it JIM KEE, Prop., Spokane Rests will be about that place on the 18th rant Company. of May, two days before its nearest approach to us. Naturally the question arises, what]

and there is some probability, that | This is to inform the general pr

will be the effect on the earth? It is not probable that there will be any appreciable effect, if we pass through the comet's tail on the 18th of May. Possibly we will have a harmless shower of meteors or a glow in the atmosphere at night. The tail being a substance so attenuated that evstreams of gaseous substance, called as some predict the amount which much damage, though this is a medical question and I am incompetent. to discuss it. It is hardly probable that any solid matter sufficiently large to do us much harm by a bombardment would be expelled this far from the nucleus. So far as I am aware the constituent materials of Halley's comet have not been determined, for when it was here before the science of spectroscopy was not sufficiently advanced to do such work, but no doubt they will be fully analyzed this time. On the whole cially so, in view of the fact of et comes into more heated region. any danger is concerned, notwith-I think we can rest easy so far as g the rounds of the press of more tor at the Lick Observatory showed paper reporters to write up something startling. Who will te the first in La Grande



J-21-F-81.

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ime to get ready and improve our present instrument for taking a peep at it. And still other comets that suddenly appear revolve in such curves that they never return, but pass on to other systems of worlds. that" is, unless they should happen lant power acting on the surfac tached to our system.

like aerolites which are found wan- ago. dering through space, and quite fre-

to come so near a big planet that will ovescome the power acting or their courses would be changed into the solid; and this point is reached elipses and thus be captured and at- in gaseous substances driven of from comets, as has recently oe in Comets are composed of cloud-like shown by the great physicists, so or gaseous substances, and usually rhenius of Sweden and Lebedew of consisit of three parts known as the Russia, through radiation pressure Uucleus, coma and tall; though it described as the electro-magnet! is probable that there is solid mat- power of light, was shown to ... ter scattered throughout the necleus, by Clerk-Maxwell a half a cent.

on the surface

Just when Halley's comet will '. quently are attracted to the earth, the smaller ones being consumed by hard to determine, though it will not the friction of the atmosphere be- be long, and a good field glass ought fore they reach the ground, and are to be able to pick it up now. Accalled shooting stars, and the larger cording to the ephemeris made by ones reaching the ground where we Father Searle, and given in a refind them. While most of the comets cent number of the publications of are from five to ten times as large the Astronomical Societies of the as the earth, their weight is ex-Pacific, the comet, on the 11th day ceedingly light-thousands of times of February, will have a right aslighter than the atmosphere at sea cension of 50m and 29sec, and a level-and the smaller stars are declination of 8 degrees and 1 minseen through the head of the comet. ute north, and by reference to a cewhich is the denser part, their light- lestial chart I find this point near a ness is apparent from the fact that cluster of three small stars a little the largest comets exert no appre- east of the middle of a line drawn ciable effect on the smallest aster- from Alpha Andromidae (Alpheratz) olds, though they themselves are south to another bright star of the greatly disturbed by the influence of second magnitude 50 degrees from the planets, and sometimes have the first, and at 7 o'clock p. m., the their orbits changed by such influ- comet will be about 40 degrees west ences, often making it difficult to of the meridian, and it is moving compute with any degree of exact- west about one degree a day, so it ness their revoultions. will set just after the sun, and then

Some shine by their own light, pass into the glare of the sunlight others by the reflected light of the and become invisible for a season, sun, and some by both. Why so and while swinging around will pass rare a gas as a comet's tail is lum!- the closest to the sun about April nous at such a distance, scientists 19 (its perihelion) and then will beand astronomers have not yet been gin its return, reappearing in able to determine.

been printed) that the scientific ment and the use of spectroscopy renders a collision between the two and photography in the study of ce- bodies impossible, yet it is possible,

the morning, and rising before day;

It is only within the last few and at this time will approach withyears (since most text books have in ten or fifteen million miles of the earth, and, no doubt, will be a magworld has been able to reach any nificent spectacle. The inclination reasonable explanation of the phe- of the plane of its orbit to that of nomena accompanying the comets. the earth's and the place of crossing and this has been due to the develop- (nodes) being inside the earth's path



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