(2216)

An Intimation of divers Philosophical particulars, now undertaken and consider'd by several Ingenious and Learned men; here inserted to excite others to joyn with them in the same or the like Attempts and Observations.

lent Signior Cassini hath lately detected again Spots in the Sun, of which none have been seen these many years, that we know of. 'Tis hoped that that learned Astronomer will shortly publish a Description of what he shall have observed of this kind. Mean time we cannot but acquaint the Curious, that, as far as we can learn, the last observation in England of any Solar Spots, was made by our Noble Philosopher Mr. Boyl, vvho, upon an occasional discourse of this Subject, vvas pleased to communicate vvhat he had observed of this kind, as he found it registred in his Notes, viz.

Friday, April 27. 1660, about 8 of the clock in the Morning, there appear da Spot in the lower limb of the Sun a little towards the South of its Aguator, which was entred about to of the Diameter of the Sun, it self being about to in its shortest Diameter, of that of the Sun; its longest, about to of the same. It disposar dupon Wednesday Morning (May 9th) though we saw it the day before about 10 in the morning to be near about the same distance from the West ward limb a little South of its equator,



that it first appear'd to be from the East-ward-limb, a little South also of its equator, It seem'd to move faster in the middle of the Sun than towards the limb. It was a very dark spot almost of a quadrangular form, and was enclosed round with a kind of duskish cloud, much in this form and in this pro-

portion to the Spot.

We

We first observed this very same Spot both for figure, colour and bulk, to be re-entered the Sun May 25th, when it seem do be in a part of the same line it had formerly traced; and was entered about $\frac{a}{33}$ of its Diameter about 7 of the clock in the afternoon. At the same time there appeared another Spot, which was just entred and appeared to be entred not above $\frac{1}{132}$ part of the Sun's diameter. It appeared to be longest towards the North and South, and shortest towards the East and West. There seem do be dispersed about it divers small clouds here and there.

These Observations vvere made, as the Noble Observer told us, vvith an excellent Telescope, in the presence of divers Curious and Ingenious persons, one of vvhom was Mr. Hook. And discoursing of the thoughts he had entertain'd touching the Effects of such Spots, he suggested this Inquiry, Whether they might not cause a considerable alteration both in the Body of the Sun it self, and in our Air and the Bodies in it upon their dissipation?

Secondly, vve understand, that at Paris the Royal Observatory, now a building for making Celestial Discoveries, is very far advanced, and will shortly be in a condition to be employed for the use intended; whence vve may expect a considerable advancement of the Astronomical Science. In the same Edifice, vision the said Observatory maketh a part of, we are informed that there is, besides many other rooms sit for Philosophical uses and purposes, a very deep Cave, having an hundred threescore and tensteps of descent; wherein many sorts of Experiments are intended to be made, being of that nature, that they require to be remote from the Sun beams and the open Air; such as are Thermometrical ones, and such as concern Refrigerations, Coagulations, Indurations, and Conservations of Bodies, and a thousand things more.

Thirdly, we hear, that the Learned Monsieur Mariotte is publishing two very desirable Discourses, the one of Vision; upon which subject he hath discovered something new and considerable: the other of the Art of Levelling, wherein he delivers many remarkable particulars about Refraction, and the Errors, that may, upon the account thereof,

Kkk 2

be imposed upon men; together with several New Instru-

ments of Levelling exactly.

Fourthly, vve find by Letters out of Germany, that the learn'd Physitian Dr. Kornmannus, is printing a Book concerning the Tinctures or Essences of the Excretions of Infects, which having fed upon several herbs and slowers, yield such dungs, vvherein the tincture, colour and vertue of these vegetables are to be found: Thus for example, he can extract a curiously red tincture out of Excrements of Worms that have fed upon Roses, &c.

Fifthly, vve find by Letters out of Italy, that a very Ingenious person there, upon the consideration of what hath been lately intimated touching certain Experiments for sinding out, whether there be a Circulation of Sap in Trees, resembling that of Bloud in Animals; Offers it to the consideration of Naturalists, Whether it be likely to find a place in Vegetables, whence the Sap may part, and whither it may return, such as is the Heart in Animals; adding, that whereas Vegetables are alwayes to put forth new branches, leaves, &c. it seems to be sufficient for them, that there be a continual and plentiful course and supply of Juyce, to thrust out every way, without any necessity of such a Circulation.

Sixthly, whereas it hath been more than once mention'd in these Papers; * Mulierum testes esse Ovario analogos; nec tantum in nuptis & facundis Mulieribus,

fed etiam in Virginibus esse Ova vera, &c. We cannot but signific here, for surther inquiry, that there hath been very lately made by two Physitians at Paris a dissection of a Cow, incujus testiculis ova repertas suerint, uti Kerkringius observasse se scripserat in Anthropogenia sua Iehnographia; and that there they intend to pursue this Inquiry, inviting others to make the same research. Wherein fince the learned Dr. Walter Needham, an English Physitian, and a worthy Fellow of the R. Society, hath heretofore already been conversant to good purpose, it is here publikely wished, that he would make a further progress in the same; plures institu-

instituendo dissectiones, catellarum imprimis valde juvenum, &c. adrei certitudinem majorem.

Seaventhly, from Germany we are inform'd, that in the University of Jena in Opper Saxony, one Mr. Weighelins, Professor of the Mathematicks there, hath invented sever ral ingenious Instruments and Engine; As first, an Astronomical one, which he calls Astrodicticum, by the means whereof very many persons shall be able at one and the fame time to behold one and the same Star. Secondly, An exceeding great Globe of the World, capable of ten persons to fit in it all at once, and to behold the motions of the celestial Bodies, &c. Thirdly, An odd Bridge, or a kind of Stairs, by which a man shall descend and yet really be raised upward, and going as 'twere upon a plain shall, fre m a lower, by gently subsiding, arrive to an upper story, &c. Of these and other particulars, said to be in part already done, and in part design'd by the faid Mathematician, we hope we shall in time obtain a more satisfactory accompt.

The Extract of a Letter written by Mr. John Ray to the Publisher from Midleton, July 2. 1671. concerning Spontaneous Generation; As a so some Insects (melling of Musk.; Sir.

Sto the particulars contain'd in your Letter, I well remember, that Mr. Lister did, a good while since, writeme his opinion concerning Vegetable Excrepencies, and the Insects therein bred and harboured; but the Letter containing that Discourse I have not at present by me, it being sent away in a bund'e of other Letters and papers into Esex. I have therefore writ-

ten to him to defire him, to take the pains himfelf to fend you his thoughts upon that subject. *

* The Reader is I ke to find this Accompt to the Transailsons of the next Month.

Whether there be any Spontaneous or Anomalous Generation of Animals, as hath been the constant opinion of Naturalists heretofore, I think there is good reason to question. It seems to me at present most probable, that