## 

## Annual Address of the Presidont of the Entomological Societr of Ontario, 1873.


Gen maviav, -Ten yeas have now gene by since a few of us met at the house of Professor Croft, in Troroutu, aul winazed this Society We commencel with less than tioc and tiwaty members, and now oor Sucretay mforms us that we have over three hundred names upon rur roll $A$ twelve-fold increase in a dealle of bears asentwidy an whlate of pro-
 ami whech ought essurcally to stmulate all our memburs to $u$-: that utharst creations for the mantemane bind twanheant of the socicty. Those of us who fresa ju...r tu jur have been entrasted by you wath postan: of otho and duty in the Sublty, camot lut feel that it ie for the beot int, rest of our institation that mese of it, mambarshould be led to tole an active pat in its wo.h, and thus secure more checency m all ow departionts, and more cestanty of a pormanent development of all our operations. Hitherto the wouls has fallen upon a few of us, and we have endcavored to perform it as cffuchtly and heartily as we cian, but we thed that year aiter year our own professional and other duties make mereased demands upon our tame and attention, so that with all the desire in the work to duvote ourselves to our favorite branch of Natural suence and the operations of the Entomologeal Socicty, we are unable to do so to the same catent as in earher years. On this account -not from any diminution of zeal and merest on our owa purt-we are mont ansiohs that hure of you shoud thke your shate in the who and and us in maintamin' unmpurn the buvel repatation that the bucicty has dirchity achavel Each one, we are sare, cain do suguthactg, and the untul effurts of us . 11 must asarcedly he pivilutab of s.atisfictury and permanent resulls.
 of Ontario-we rejous to sel is rapuly browang an pablic appreciation and far ur, ats mumbers' list of uver 3000 names, its well-attended meetings in varions parts of the conntry, its judicious distributoons of frut for csperinental purposes, and the vigor and zeal of its executive, are all matters upon which we may well congratulate its President, Directors and Members. That it may go on and prosper, and cxtend its work throughont our land, till cyery resudent in the Dommon enjoys the frat of his own vine and h's own frut tree, is our most hearty aspiration.

During the past yoar but little has oceurred in an Entomological point of view that ealls for. especial netice on this occasion. A year ago I ventured to call your attention to the subject of Specific and GenericNomenclature, which has been so unpleasantly exciting the minds of entomologists both here and almost everywhere clse. Ay remarks, I was gratified to find, clicted a good deal of discussion in the pages of the Canadian Entomologist, and brought fortly a very able paper upon the subject from the pen of Mr. W. If. Edrards, of West Virginia. The question, however, has by no means yet been set at rest and will no doubt continue to exercisa us all for some rime to come. At the Dubuque Mecting of the imerican Association for the Advancement of Science, a sul-section of Entomology was formed, and a comnittee of its adherents specially appointed to consider and report upon a scries of rules upon nomenclature. Unhappily, owing to various circumstances, no report was dramn up, though I must in justice state, that my friend Mr. C. V. Riley, of St. Louis, took a grcat deal of pains to clicit the views of the members and to draw up some conclusions from them. Last monti, at the Portland mecting of the Associationwhich, to my very great disappointment, unavoidable engagements prevented me from attending-a new committee was appointed to re-consider tho subject, and we trust that some definite rules will have been decided upon by its members lefore the meeting of next year at Hartiord, Con.
You will all, I have no doubt, be gratified to learm that, upon the suggestion of the sub-section of Etomology, the American Associntion numimously passed a resolution inviting our Etomolngical Socicty of Ontario, as well as tho AmericanEtomological Socicty,
to hold a general mectug of our menbers at Ifart-
ford next year during their annual ecssion. I trust that this invitation will be condially accepted and that a large number of us may there meet our American friends and enlargo and strengthen those cordal feclings of scientific brotherhood which have so long plensantly existed between us. I may add, as a notable token of the estimation in which our branch of science is now held, that the Association will meet next year under the presidency of our allest American Entomologist-Dr. J. I. Tcconte, of Philadelphia.
You have already heard from our Secretary-i'rea. surer's Report the satisfactory condition of our finances and other busmess matters; I neal not therefore trespass further upon your patience and attention. Ucartily thanking you, gentlomen, for your kindness towards mysclf and my colleagues during our term of office, and for the honor which you have conferred upon me by calling me to preside over you.
I have the honor to remain, with the best wa-ias ur the advanecmont and prosperity of the Souty,

Sou lumble and obedient servant,

## Chanley J. S. Brinciry,

Pi+e oj En'omolugical Soci $1,1 \mathrm{I}^{\circ}$ Un':
Thinity Cullo School, Port IIope, Selt, 15is.

## Gizzards of Insect 3 .

Fic.jone knows that turkeys, fowls, geece and many other burds that take their food by the peck, are supplicd with gizzards, and that such birds swallow grains of sand, small pebbles, and other hard sub. stances with their foot. The action of the gizzard unun this mixture may be easily understood; the hard substances are made to do the duty of teeth, by crushing and grinding the softer ones to a pulp, so that tecth in the mouth of a fowl whll be out of place. Many who know all this may nut be aware that several insects have gizzards too, and still more wonderful. The gizzards of insects are much more compheated affurs than thuse of bisis. Ii the gizzard of a cruket be land upin, it will le found limed wath rows of formudable tecth-a gool sulstitute, you will say, for the saml and pelbles taken moto the giziands of birds at every meal; and as these teeth are permanent, they no doult save the possessor of them a vast deal of trouble, unless indecef the cricket should ever be sulject to the toothache. The gizzards of insects are notall alike; some are lined with teeth, some with plates, some with horns, and some $n$ ith bristles, butin every instance the apparatus is a vory wondcrial one. In a pretty little bectle not uncommonin some localitios, and with a name much longer, perhaps, than the longest to be found in the
register, tho gizard is about the size of a common pin's hend, and is armed rith more than 400 tecth; imagine what the number of muscles must be to set all this machincry in motion, and keep up its action upon the food. In some species it amounts to many thousanus.
Schle or Mawk Mota.-However much we may have differcl from cach other in the character of our pursuits through life, one experiment we have nearly all of [us tried in our tender years and failed in-I mean that of catching a butterly or moth on the wing withont rubbing off a quantity of fine powder from its body and wings. In light colored moths this powder is so much like fine four or meal that it is probably from this circumstance that they get the name of "millers." Place a single particle of this line powder from the wing of the farwk moth under the microscope. It is not much unlitic a fea ther, with a stem at one end, as if it were made to fit ato a soclict; and so it rcally dad when it was m use. In butterfies and moths (even the littlo pest that takes such unwarrantable liberties with our boas and muffs) thonsands of these sockets may be found on both sides of each wing, and they are so arranged that the seales that are phanted in them lic in very regular rows, cach row overlapping a portion oi the next, like tiles on the reof of a house. All the colors and benutiful markings on the wings of these insects are entirely owing to the diferent colors of the scales themsclves; and if these are brushed off the socketed surface in which they were planted will be as nearly colorless as a fly's wing. The fine dust, then, that glistens on your thumb and finger when you have rudely held a butterily's wing between them, is a pinch of beautiful scales of curious forms and many different colors, and in a few usects these scales, when cxamined in a proper light through the microscope, are so inconceivably dazzling and beau. tiful, that they are not to be surpassed lyy the most brilliant clusters of precious stoncs in anything but


## dtliscellancours.

## Boot-Blacks.

Englishmon visiting this country arc apt to forget that servant-girls icfuse to perform several services devolving mpon them in tho old comntry. Cleanng boots is one of thes.: In Lingland the master of a house where even only one servant it kept sends his bonts to the kitchen every morning to bo cleaned, and if he concs to the United States he naturally supposes the .rme ofice will be done for him by the sax e hand. When the Ricv. Newman Hall was in Obcrlin, the gacst ef President Fairchilh, on the morming aftur hiv armol sent his boots below for an ohnous purpee. Thay were not returned to him when the bell whal him to the brcaliast rowm, and lie appoared in his tulut slappera. I'res. Fairehild noticed this, ard he also noticed a pair of strange bocts in a stamse phace. He wubla probably have as soon thought of asking the bistehenmaid to veniy a yuatation for him as to black his visitor's boots, and su he Wacl.cil them himedi. The Olerlin Tiwrs in narrating this ancedote, divertingly adds :-"This is only another circumstance confirming the truth that no man. whether his station be high or low, ever comes to Oberlin but that in departing he carrics with him, in some form or other, more or less of the native polish of the phace "Farm Jumina?

Discarded Pareft-llere is a hint for loung Mcaus Christian Aswaritions.-Most American travellers throw away minh of thicir rcading matter at their journcy's cnd. But in Lingland, at each station can be found a box fastencd up, very similar to our letter boxes, into which the traveller puts his papers, books, etc. These are, in turn, collected by men, who carry them to hospitals, homes for old men and women, and similar instituticna, where they are gladly ieccived.
Dasger from Whit Clutats.-Few pursuas understand fully the reason why wet clothes exert such a chilling influence. It is simply this. Water, when it evaporates, carrics off an cnormous amount of heat in what is called the latent form. One pound of water an vapor contans as much heat as nue or ten pounds of liquid water, and all this heat must, of course, be taken from the body. If our clothes are moistence with three pounds of water - that 1 s , if by wetting they are rendcred thrce pounds heavierthese three pounds will, in drying, carry off as much heat as wonld raise three gallons of icc-cold mater to the boaing point. No ronder damp clothes chill ns.

## gaturtismumthts.

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