



Royal Belgian Institute of Natural Sciences

- Carole Paleco

DITOs Final Event 2019



Science cafés

7 cafés organised & surveyed
between 15 Dec 2017 and 20 Apr 2018

5 - 20 participants

42W / 18M

Mostly over 60 yo





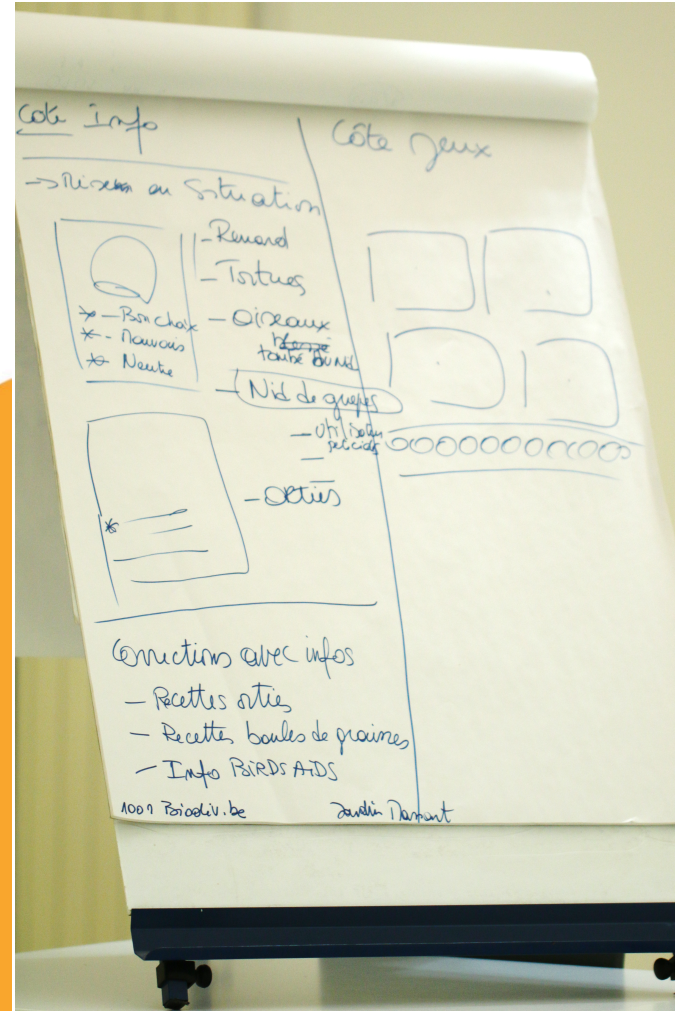
Small touring
exhibitions
going to
schools in
Brussels Capital
Region



BIODIVERSITY IDEA

Biodivers'idea workshop
January 31, 2018

UITNODIGING - INVITATION



Result of the workshop with collaborators: Z-card

H

Netels
Ik heb netels in mijn tuin:
1. ik verwijder ze (afsnijden).
2. ik besproei ze (herbicide).
3. ik laat ze staan voor de rupsen.



Ortie

J'ai des orties dans mon jardin
1. je les coupe.
2. je les pulvérise.
3. je les laisse pour les chenilles.

Had je een teveel aan netels? Maak er soep van!
Hier vind je een goed recept:
www.natuurwetenschappen.be/BNEC/BIODIVERCITY



Tu as trop d'orties? Fais-en de la soupe!
Tu trouveras la recette ici:
www.sciencesnaturelles.be/CBEN/BIODIVERCITY

I

Vogels
In die winter voorzie ik:
1. elke morgen brood.
2. elke dag granen.
3. één keer per week water.



Oiseaux

En hiver, je leur donne:
1. du pain tous les matins.
2. des graines tous les jours.
3. de l'eau une fois par semaine.

Wil je zelf vetballen maken? Hier vind je een goed recept:
www.natuurwetenschappen.be/BNEC/BIODIVERCITY



Tu veux faire toi-même des boules de grasse? Tu trouveras la recette ici:
www.sciencesnaturelles.be/CBEN/BIODIVERCITY

J

Roodwangschildpad
Deze schildpad is een exotische soort:
2. ik laat ze vrij in een vijver.
3. ik overhandig ze aan een gespecialiseerd centrum.



Tortue à joues rouges

Cette tortue est une espèce exotique:
1. je n'en achète pas.
2. je la relâche dans un étang.
3. je l'apporte dans un centre spécialisé.

Hier twee verenigingen die de dieren kunnen opvangen:
SOS wilde dieren
Hoge Buitzmont 271
9500 Geraardsbergen
0468 28 23 68
info@soswildedieren.be

VZW CARAPACE
carapace@pairidaiza.be

Voici deux centres qui s'occupent d'eux:

Birdsbay
Allée du Bois des Rêves.
1340 Orignies
0495 31 14 21

Asbl CARAPACE
carapace@pairidaiza.be

K

Gewond dier
Ik vind een gewond dier:
1. ik koop ze niet.
2. ik neem het mee naar huis.
3. ik breng het dier naar een revalidatiecentrum.



Animal blessé

Je trouve un animal blessé:
1. je le laisse là.
2. je le ramène chez moi.
3. je l'apporte dans un centre de réhabilitation.

Voor Brussel
Revalidatiecentrum voor wilde vogels en zoogdieren:
Voeweydestraat 43-45
1070 Brussel
02 521 28 50



Pour Bruxelles:
Centre de réhabilitation pour oiseaux et mammifères sauvages:
Rue de Voeweyde 43-45
1070 Anderlecht
02 521 28 50

L

Ves
Ik heb een vos in mijn tuin:
1. ik bel de politie.
2. ik laat het dier met rust.
3. ik geef het dier te eten en te drinken.



Renard

J'ai un renard dans mon jardin:
1. j'appelle la police.
2. je le laisse tranquille.
3. je lui donne à manger.

Om meer te weten over de vossen in Brussel:
www.natuurwetenschappen.be/BNEC/BIODIVERCITY



Pour en savoir plus sur les renards de Bruxelles:
www.sciencesnaturelles.be/CBEN/BIODIVERCITY

Qu'est-ce que ça veut dire?

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50.

Solutions

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50.

Oplossingen

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50.

M

Wesp
Ik heb een wespennest onder het dak:
1. ik bel de brandweer.
2. ik verdelg ze.
3. ik gebruik een insecticide.



Guêpe

J'ai un nid de guêpes sous mon toit:
1. j'appelle les pompiers.
2. je le détruis.
3. j'utilise un insecticide.

Indien het wespennest in je tuin klein en goed zichtbaar is, laat het gerust hangen!



Par contre, si ton nid est dans le jardin, qu'il est petit et bien visible, laisse-le tranquille!

N

Dode boom
Mijn appelboom is dood:
1. ik verbrand hem.
2. ik hou hem nog enkele jaren.
3. ik doe hem om en maak een egelverblijf.



Arbre mort

Mon pommier est mort:
1. je le brûle.
2. je le garde encore quelques années.
3. je le coupe et j'en fais un abri à hérisson.

Om een egelverblijf te maken vind je hier enkele ideeën:
www.natuurwetenschappen.be/BNEC/BIODIVERCITY



Pour construire un abri à hérisson,
tu trouveras des idées ici:
www.sciencesnaturelles.be/CBEN/BIODIVERCITY

O

Vakantie
Ik vind een super leuk dier op vakantie:
1. ik neem het mee in mijn bagage.
2. ik hou het dier in mijn hotelkamer.
3. je laat het dier in zijn natuurlijke omgeving.



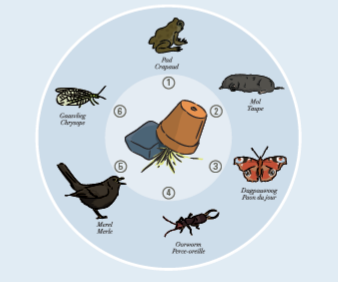
Vacances

En vacances, je trouve un animal trop joli:
1. je le ramène dans ma valise.
2. je le garde dans la chambre d'hôtel.
3. je le laisse dans la nature.



- 1 Bonte specht Pic épeche
- 2 Boornlfever Sittelle
- 3 Hommel Bourdon
- 4 Steenuil Chouette chevêche
- 5 Daggauwoug Paon du jour
- 6 Rups Chenille
- 7 Larve van het vliegend hert Larve de lucane cerf-volant

Wie voorzie ik van onderdak? J'abrite qui ?



DOE MEE OP:
www.ikgeeflevenaanmijnplaneet.be
en ga aan de slag voor de biodiversiteit!

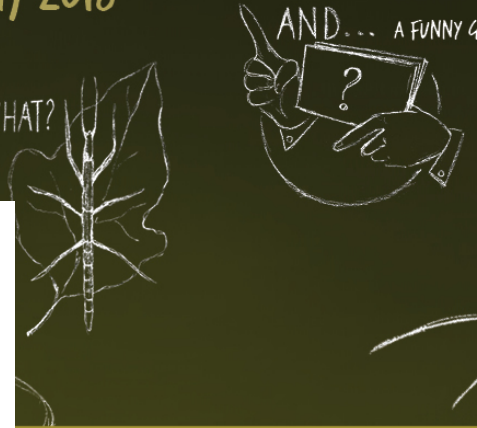
FONCE SUR:
www.jedonnevieeamplaneet.be
et engage-toi pour la biodiversité!

PHASMA MEETING

APRIL 29TH, 2018



WHAT?
EXCHANGE OF BREEDING STOCKS



PHASMA MEETING

SUNDAY, APRIL 21ST, 2019

For the 4th time the PHASMA MEETING will take place at the Royal Belgian Institute of Natural Sciences in Brussels with the support of the European citizen science project DITOS. It is a unique opportunity to learn more about stick insects through a series of activities: seminars, a game on stick insects, activities for kids, the exchange of breeding stocks, and to meet other phasmid enthusiasts from many countries. It is open to anyone interested in stick insects: breeders, scientists, amateurs, beginners, families...

THIS EVENT IS FREE BUT...

... REGISTRATION IS **OBLIGATORY**
BY SENDING AN EMAIL TO KRISTIEN RABAEY
(KRISTIEN.RABAEY@SKYNET.BE)
-- PLEASE INDICATE THE NUMBER OF PARTICIPANTS)

CONTACTS

Kristien Rabaey (kristien.rabaey@skynet.be)
Jérôme Constant (jconstant@naturalsciences.be)
Joachim Bresseel (joachimbresseel@gmail.com)

VENUE: Royal Belgian Institute of Natural Sciences,
Vautier street 29, 1000 Brussels
ACCESS info: <https://www.naturalsciences.be/en/museum/practical-information>
For special requests, please contact us.

PROGRAM

- 10h30 Registration & coffee
- 11h00 Seminar (large auditorium): *Bokor Mountain, the stick insects Nirvana in Cambodia* by Jérôme Constant (Royal Belgian Institute of Natural Sciences)
- 12h00 Lunch: Food (sandwiches etc.) and drinks offered
- 13h30 Seminar (large auditorium): *The Dataminae of continental Southeast Asia* by Joachim Bresseel (collaborator, Royal Belgian Institute of Natural Sciences)
- 14h30 Seminar (large auditorium): *Phylliidae: History, Etymology, and Taxonomy* by Royce T. Cumming (San Diego Natural History Museum, USA & Montreal Insectarium, Canada)
- 15h30 Stick insects breeding stocks exchange

Kid's corner with specific activities
for the youngest participants

12H Lunch and drinks a citizen scienc
large auditorium): RESOLVING LIFE: PROGRESS AND ENIGMAS (Germany)
13H30 Sem (STICK) INSECT CHALLENGE ?
large auditorium): STICKING) MORPHOLOGY OF ATTACHMENT A by Thies Büscher
15H30 Phas



Graphism by Marie Berthel, FBINS



This project has received research and innovation

Number of surveys filled: 35

Language

NL 15/35 (42,8%)

FR 8/35 (22,9%)

EN 12/35 (34,3%)

Age

Min 7,5

Max 73

Mean 31,5

Median 32

Gender

F 8/35 (22,9%)

M 27/35 (77,1%)

Other 0/35 (0%)

Country of origin of the participants

Belgium 20/35 (57,1%)

The Netherlands 5/35 (14,3%)

Germany 5/35 (14,3%)

Italy 2/35 (5,7%)

United Kingdom 2/35 (5,7%)

Switzerland 1/35 (2,9%)

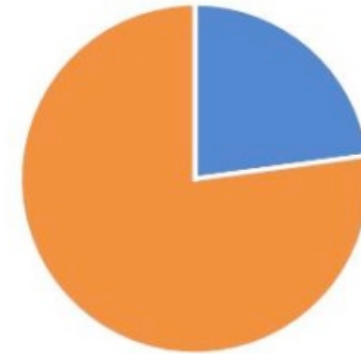
Did you attend the Phasma Meeting before?

Yes 26/35 (74,3%)

No 8/35 (22,9%)

Didn't reply 1 :35 (2,8%)

Genre



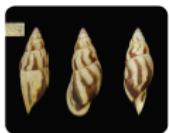
■ Féminin ■ Masculin ■ Autre



CITIZEN SCIENCES (CS) AT THE RBINS : RECENT AND RECURRENT COLLABORATIONS

The Royal Belgian Institute of Natural Sciences (RBINS) has an extensive and well established collaboration with volunteers in almost all its directorates (Taxonomy & Phylogeny, Public Services, Natural Environment, Scientific Heritage Service, Earth and History of Life). The nature of the activities of the «Citizen Scientists» (CSs) is really varied. With their help, the RBINS complements the lack of expertise in some research fields. They also valorize the scientific collections by studying them, as a result improving collection management and accessibility of the collections. This poster shows some of the most recent projects where the CSs are active and how important their role is to the RBINS.

MALACOLOGY - INVERTEBRATES



Contribution to Taxonomy: Neotropical land snails, especially the re-evaluation of the Orthalloidea

CSs contribute to the research of land snails, and collection management (types, biohistory, Dautzenberg collection).



Fraud and Fakes with specimen shells, shell related objects and artefacts

Study and analysis of shells and shell related objects: fraud and fakes in nat hist. museums, private collections and ethnographic collections worldwide, improving and valorising conservation and management of collections.



Distribution to taxonomy & population distribution

Identification of European marine Mollusca (Gastropoda, Opisthobranchia, Nudibranchia) from NE Atlantic & Mediterranean Sea with occasional support in identifications for stakeholders.



Slak-in-Du (slakken inventarisatie in de Duinen) project

CSs make an inventory of the terrestrial and freshwater mollusca from the Belgian coastal region with attention for vulnerable and Red List species and exotic/invasive species.



Contribution to SPEEDY (2014-2017) by a collaborative project funded by the IAP program of Belspo

CSs and researchers sample land mollusks for DNA research and morphometrics to study the responses of populations and communities to urbanization.



"Overarching project" improving our knowledge and expertise of species: invertebrates

CSs and professionals describe new species of invertebrates (Mollusca, Crustacea, I hydrozoa, Porifera, Echinodermata, Bryozoa...), study collections, data, archives, etc.

ENTOMOLOGY



Contributions to Taxonomy

CSs study and describe specimens of insects and spiders (specific groups: Families, genera...), from the collections at home (loan) and are valorising an identified specimens/collections.



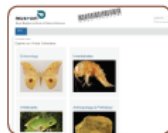
Contributions to Collection Management

CSs are involved in sorting, mounting and labelling specimens of insects and spiders, re-organizing collections and making them available for study.



Contributions to field sampling and international scientific missions/expeditions

CSs are involved in sampling specimens in Belgium or foreign countries. Citizens and professionals with an interest in «nature, insects, spiders, mites, centipedes...»



Contributions to digitization of type specimens (pictures) by crowd sourcing

CSs make high resolution stacked pictures from type specimens and put them on «virtualcollections» (RBINS databases) using an on line crowd sourcing tool. After validation, the pictures are put online.



Contribution to entomological databases and websites by crowd sourcing

CSs compile brief lists of observations (Coleoptera). Screened and validated data are added to a database, and can be used by both researchers and CSs for their own projects, publications etc.



Education & sensitization on insects for a broad audience

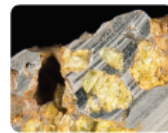
CSs help organizing educational activities on insects for a broad audience. One of the top activities is the «Week of the insects» organised by RBINS and 6 Belgian entomological associations. During this week, all over Belgium CSs are informed on the magic world of insects.

GEOLOGY & PALAEOLOGY



Contribution to paleontology and geology

CSs are collecting fossil specimens, studying them and analyzing the results; studying specimens from the RBINS paleontology collection, either on their own or in collaboration with RBINS scientists.



Collecting geological data and samples from temporary outcrops

CSs provide information about temporary outcrops such as excavations for new buildings or roadcuts, make a description of the outcrop to be included in the GeoBase database, and supply useful samples for the collection.



Contribution to fossil preparation

CSs participate in the preparation and restoration of fossil vertebrate remains, both recently collected specimens as well as specimens from the RBINS collection. Part of the prepared/restored specimens are studied at RBINS or by the CSs at home (loan).



Enlargement of the RBINS reference collection of dry fish skeletons

CSs collect and deliver sharks/ rays or carcasses of rare fishes, that are prepared for their skeletons at RBINS and deposited in the collections. They serve for comparative purposes to identify fish remains from archaeological or palaeontological sites.

BELGIAN BIRD RINGING CENTER



BeBirds (Belgian Ringing Scheme)

DeBirds (about 350 ringers) aims to organize the collection of quality data through a network of certified volunteer ringers; make the data available to scientists, CSs, policy makers...; participate in training students; and develop research programs focused on the conservation of Nature.

<https://od.nature.naturalsciences.be/bebirds/en/index>

PUBLIC AWARENESS



Doing it Together Science (DITOS) : 2016 - 2019

European projects supporting RBINS CSs activities like the DITOS project focusing on Biodiversity and Environmental Sustainability.



XperIBIRD.be

XperIBIRD.be is an educational project that aims to distribute nest boxes equipped with a camera and a nano computer to schools and educational partners around Belgium. School kids enter their observations on the website <http://www.xperibird.be/>.

For any questions, please write us at citizenscience@naturalsciences.be



The pictures are used by kind permission of the RBINS and its collaborators.



XperiLAB – The Science Truck touring all over Belgian schools

XperiLAB @ Tour & Taxis (Brussels) 28-29/04/2018

Did you know the XperiLAB already?

Yes 5/26 (19,2%)

No 20/26 (76,9%)

Didn't reply 1/26 (3,8%)

Would you like the XperiLAB to come at your school or town?

Yes 22/26 (84,6%)

No 2/26 (7,7%)

Didn't reply 2/26 (7,7%)

Which experiment did you prefer in the XperiLAB?

Toothpaste 14

Daphnia 10

Hydrodynamics 8

Structure 6

Windmill 5

Insulation 4

Colors 4

Fibers 4

Solar energy 3

Have you conducted similar scientific experiments at school?

Yes 12/26 (46,15%)

No 12/26 (46,15%)

Didn't reply 2/26 (7,7%)





Thank you !

