

Z

CHESTER ZOO

magazine

for members and adopters

WINTER 2019



Z

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For all of the zoo's latest news,
go to chesterzoo.org/news

The HEDGEHOG PROJECT

Earlier this year a State of Nature report was published which sadly confirmed a continued rapid drop in British wildlife. The facts are sobering;

In just 50 years 41% of the species studied have declined and species that were once common are disappearing from our national consciousness.

However, there is *HOPE* and we, along with many other British wildlife organisations, are working on reversing this trend.

We can all contribute to conserving our very own wildlife by effectively managing our parks, gardens and other green spaces. This network of habitats is a vital patchwork of connectivity for all sorts of birds, mammals and insects. Making small changes in these areas can have huge benefits for wildlife, and our latest project aims to use the power of citizen science to do just that!

The much-loved hedgehog has often been voted the nation's favourite native species. Sadly, in recent years their numbers have decreased dramatically. So much so, that since the beginning of this century it's estimated that hedgehog numbers have halved in rural areas and seeing a hedgehog in the wild is now a rarity. There are many reasons for this decline including agricultural intensification, urban

development and road deaths, but hedgehogs love gardens, parks and other green spaces. This is where we're going to ask for your help.

We're about to launch an innovative project that will use infra-red, motion detecting cameras to survey garden wildlife in the area. We'll be asking local residents, zoo members, visitors and staff to help us document hedgehog occurrences so that we can better understand the exact habitat conditions that bring them to certain green spaces.

We then hope to be able to use this knowledge to make positive changes for hedgehogs - and for other species too. Our ultimate goal is to inspire our communities to improve garden and green space habitats for biodiversity.

If you live in Cheshire and North Wales you can help us with this survey; we'll be sharing more news about this in future editions of Z magazine.





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New Arrivals!

AFRICA'S RAREST LARGE MAMMAL BORN AT THE ZOO

Our keepers have been celebrating the arrival of a rare eastern bongo - the world's largest forest dwelling species of antelope. The calf, the first to be born at the zoo for 11 years, arrived to first-time mum, Safi.

Experts have hailed the female calf's arrival as "incredibly important", with latest estimates suggesting as few as 70 may now remain in its natural habitat in East Africa.

The animal, which is now found in just one remote area of Kenya, is listed as Critically Endangered by the International Union for the Conservation of Nature (IUCN) and faces an extremely high risk of becoming extinct in the wild.

Its population has been decimated by humans hunting for its meat and horns, combined with habitat loss caused by agriculture and uncontrolled timber felling.

We're part of an endangered species breeding programme, which is working to boost eastern bongo numbers in zoos around the world and secure a safety net population.

The zoo, in partnership with Manchester Metropolitan University, is also supporting vital research on the subspecies in Kenya - investigating the impact that habitat change has on the tiny bongo population that remains. The team is also working with researchers on a potential reintroduction strategy for the highly endangered animals.

In 2018, scientists from Chester Zoo discovered another subspecies of bongo, the lowland bongo, in Uganda for the first time. The zoo's motion-sensor camera traps detected the presence of the animals in the lowland rainforests of the Semuliki National Park.



New Arrival!



A RARE BABY ORANGUTAN!

We're excited to announce the birth of a critically endangered Sumatran orangutan. The new baby was safely delivered by mum Subis in November, following a nine month pregnancy.

Our keepers now plan to select a fitting name for the adorable, brown-eyed youngster, who has been spotted clinging tightly to mum since birth.

The new arrival is a further success story for the acclaimed international breeding programme for the highly threatened species.

Sumatran orangutans are listed as Critically Endangered by the International Union for the Conservation of Nature (IUCN). With fewer than 14,000 surviving in the wild, they are one of the world's most endangered great apes, threatened by hunting and habitat loss because of illegal logging and the palm oil industry.

Find out how we're helping orangutans in South East Asia at chesterzoo.org/palmoil



ILLEGAL WILDLIFE TRADE

A word from our CEO, Dr Mark Pilgrim...

We can all contribute to *STOPPING THIS* illegal trade and making a difference.

It's been just over five months since we as coordinators of the European Association of Zoos and Aquariums management programme of the black rhinoceros, made history by transporting five critically endangered eastern black rhinos from European zoos to Rwanda. I'm very pleased to say that the rhinos have acclimatised really well to their new environment and recently the first three have moved out of their acclimatisation areas into the surrounding Akagera National Park. The other two will follow in a few weeks time. This is a major step for the zoo rhinos and the national park.

Rhinos are one of many species around the globe that are affected by the illegal wildlife trade with poachers killing them for their horns. This trade is a major threat to many endangered animals and plants - the fourth most lucrative international crime after drugs, arms and human trafficking, worth a staggering \$19 billion annually. There is hope though and we are working with many global partners to stop the illegal wildlife trade.

Despite being protected by international wildlife laws that ban their trade, pangolins are the most illegally trafficked group of mammals in the world. For almost two years we have been working closely with the Uganda Wildlife Authority (UWA) in Uganda to uncover new information about the extremely rare and nocturnal giant pangolin. Until recently very little was known about them as they are incredibly elusive, making them challenging to study. We have installed a range of camera traps across the national parks of Ziwa Rhino Sanctuary in central Uganda enabling us to learn more about how and where these animals are interacting with their habitats. Our overall aim is to protect the pangolin from poachers but we can't protect something we don't understand, so all the information we gather will feed into conservation management strategies for the species. We hope this will then be applied throughout central Africa.

Indonesia is home to lots of beautiful birds from the elegant Javan green magpie to the stunning Bali myna. These, along with many other species, have the most majestic birdsong. Sadly, this is one of the reasons that

many songbirds are on the very edge of extinction. Earlier this year we were part of research that produced some startling facts. We found out that around 75 million birds are kept as pets in Java, which is threatening to wipe out wild bird populations. Across South East Asia, thousands of songbird species are extracted from the wild, with many being sought after to enter into singing competitions or to be kept as ornamental pets. We have been striving to combat this crisis for a number of years. We've implemented community awareness and education projects in South East Asia to try and create a cultural change and we've also created conservation breeding programmes for rare songbirds here in Chester and in Indonesia. There is room for cautious optimism, as a number of influential and well-respected song competition groups now hold events exclusively for non-wild bred birds - reducing the pressure on wild bird populations. We hope that these events can become the norm, as opposed to the exception. The findings from this research are also helping us target the most important communities with campaigns to reduce bird ownership, so I'm hopeful that we are already seeing change.

I'm immensely proud of the work we are doing in South East Asia and Uganda as we try to stop the illegal wildlife trade amongst songbirds and pangolins but this is just the tip of an iceberg. We can all contribute to stopping this illegal trade and making a difference.

If you witness any illegal wildlife trade activity, whether you are in the UK or if you are travelling elsewhere, you can report it to the authorities through our website. Any information you report will be shared with the relevant authority for the purpose of investigating the crime.

chesterzoo.org/illegalwildlifetrade





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The ZOO VET

Whether it's treating an Andean bear with a sore tooth, pioneering sinus treatment on a Bornean orangutan or performing intricate eye surgery on a tiny chalk bass fish, no two days are ever the same for the zoo's Animal Health team.

Veterinary Officer *IAN ASHPOLE* tells **Z** about a job that's much more than a vocation... it's a lifestyle.

"Alongside my colleagues in the Animal Health Centre, I'm responsible for maintaining the day-to-day health of all of the animals at the zoo. Our work is varied and, with over 27,000 animals, the number of potential patients is large - rarely do we follow a set daily routine. However, each day, the first thing my colleagues and I try to do is to discuss ongoing clinical cases; which animals need to be seen that day and what procedures are due to be performed. Our plans often change dramatically throughout the day, however, and new cases are constantly added to the work list. It's never a dull day!

"As well as examining and treating new patients every day, which is inevitable with so many animals, a large part of my work concerns 'preventative medicine' such as performing vaccinations and health checks in order to reduce the risk of animals getting sick in the first place. A lot of this work is hands-on and practical but, equally, a lot of time is spent producing and reviewing quarantine and disease testing protocols and results. This is to reduce the risk of diseases entering or being spread around the zoo.

"The most challenging part of my job is knowing the different anatomies, physiologies, diseases, drug dosages and drug actions for so many species, from fish and reptiles to birds and elephants, plus everything in-between. I enjoy the challenge of working out how to examine and treat sometimes tiny, sometimes huge, sometimes dangerous, scaly, feathered or furry animals.

"I'm passionate about conservation, which is why I'm very proud to be working for a conservation charity and one of the world's best zoos. Our work is not just about the animals here at the zoo - the vet team contributes towards multiple conservation projects around the globe, as well as here in the UK.

"One of the key projects, which the vet team is involved with, is the process of developing and administering new diagnostics



and treatments for Elephant Endotheliotropic Herpesvirus (EEHV), a terrible disease which threatens the conservation of elephants (particularly Asian elephants) both in zoos and in the wild. One way in which we help is by regularly collecting blood donations from our bull elephant, Aung Bo, to help build up a much-needed plasma bank as a treatment for clinical cases of disease. In the event of an elephant calf getting sick, it is all systems go and the vets are responsible for sedating or anaesthetising the patient in order to administer life-saving treatments, such as intravenous fluid therapy and anti-viral medication. We also collect and analyse blood samples to assess the patient's health and immune response before, during and after treatment. Our team is working with researchers and experts around the world to develop new treatment options for EEHV, such as the use of immune-boosting drugs and, ultimately, the development of a vaccine.

"As part of my job, I travel the world to assist with field conservation projects. Recently, I went to Indonesia to help with a reptile and amphibian workshop at Cikananga, a breeding and rehabilitation centre on the island of Java which Chester the zoo supports. This was a wonderful example of capacity-building in action; liaising and working with staff from all over Indonesia and discussing ways to improve the health, wellbeing and husbandry of rescued reptiles and amphibians. Whilst at



Cikananga, I also worked with the centre's veterinary team to examine and discuss issues relating to their own patients and how my experiences might assist their work. These trips are always a two-way information exchange and I always learn new skills and knowledge which can be brought back and used for the benefit of the animals at Chester Zoo.

"I feel very privileged to work up close and personal with a wide variety of rare and endangered animal species from around the world and I never take that for granted. I like knowing that I have helped sick animals to recover and that I may be contributing, in some small way, to conservation and helping to **PREVENT EXTINCTION.**"





UK cities and towns join SUSTAINABLE PALM OIL CITY movement to save orangutan homes

We've been celebrating as Oxford and Newquay have committed to become Sustainable Palm Oil Cities and towns - following a model developed for the city of Chester by wildlife conservationists here at the zoo.

The major initiative - spearheaded by our conservationists - is designed to protect wildlife habitats and prevent the extinction of species such as orangutans. Unsustainable production of palm oil is wiping out huge areas of rainforest - in order to provide the ingredient for food and household products consumed in the UK and around the world.

Chester became the world's first Sustainable Palm Oil City earlier this year. Now, Oxford, and Newquay are the first to commit to the scheme as it rolls out nationwide. The movement requires restaurants, schools, workplaces and attractions across each city to support sustainable palm oil, which conservationists proclaim is the best way to prevent habitat destruction for wildlife such as orangutans.

Conservationists from the zoo developed the Sustainable Palm Oil City model based on the framework created by the Sustainable Fish Cities project, led by independent group Sustain, the alliance for better food and farming.

Cat Barton, Field Programmes Manager, said: "This is a turning point in the fight to prevent extinction.

"When the city of Chester came together to become the world's first Sustainable Palm Oil City earlier this year, we knew it was just the start. The campaign in Chester has helped businesses to influence their suppliers to switch to sustainable ingredients. These changes have

then been passed along the chain to other customers. It's a snowball effect.

"Now we will see that effect spread around the UK. We are on the cusp of making sustainable palm oil the norm.

"Thank you to the pioneering leaders in Chester, Oxford and Newquay for taking action. We are also in talks with a number of major global cities. Action is urgent, but it is not too late to save species."

Conservationists have long advocated that embracing sustainable palm oil and halting deforestation is the best solution to the palm oil crisis. If consumers and organisations were to stop using palm oil entirely, an alternative supply would need to be found for the global demand for edible vegetable oils. Because other oil crops - such as coconuts, soya, olives, sunflowers and maize - are less productive per square kilometre, even more land would need to be converted to agriculture.



Dr Mark Pilgrim, Chief Executive Officer, said:
 "From orangutans to hornbills, wildlife is under threat. We are on the brink of losing some species forever. Rainforests are being wiped out to produce palm oil for the food and household items we all consume every day.

"Boycotting palm oil will push the problems elsewhere, so the only way to prevent extinction is to embrace sustainable palm oil.

"Sometimes environmental issues make people feel powerless. But with palm oil, we can all make a difference. By embracing a more sustainable future, we can stop this crisis."

More than 50 organisations in Chester signed the sustainable palm oil pledge earlier in 2019. Restaurants and food outlets throughout the city now display the campaign logo in their shop windows - to help raise awareness among consumers and to enable sustainable choices.

Larger organisations in the city have also embraced the scheme, including school meal food providers Edsential, who provide more than 5.5 million meals for children each year.



In a significant next step, conservation leaders in Oxford and Newquay have now committed to achieving Sustainable Palm Oil City status too.

The campaign is backed by conservationists at the Orangutan Land Trust and the Sumatran Orangutan Society, and is endorsed by prominent wildlife organisations such as the British and Irish Association of Zoos and Aquariums (BIAZA), as well as palm oil sustainability consultants Murdoch Associates and Efeca.

Sun bears, hornbills and tigers are among the many species being pushed to the brink of extinction by unsustainable oil palm plantations

SUSTAINABLE PALM OIL Christmas Shopping List

This Christmas make sure you shop sustainably and support the brands that use 100% RSP0 certified sustainable palm oil! Check out our festive shopping list as a guide below...

CHRISTMAS DINNER

Quorn
 Walkers Deli & Sausage Co.
 Patchwork Paté
 Paxo stuffing
 Bisto, Oxo or Manigold gravy

CHRISTMAS PUDDING

Matthew Walker,
 Sainsbury's or Aldi
 Christmas pudding
 Ambrosia custard
 Marshfield Farm ice cream

MINCE PIES

Mr Kipling
 Lyons
 Aldi brands & Sainsbury's

SWEET TREATS

Aldi or Sainsbury's chocolate coins
 Fox's biscuits
 Royal Edinburgh shortbread
 Lees' snowballs
 Celebrations
 Ferrero Rocher
 Lindt
 Thorntons
 Galaxy
 Matt and Ben's fudge



Find out more, download our handy Sustainable Palm Shopping list on the website

TWO 'EXTINCT' snail species

Thousands of tropical snails which were bred and reared by our conservationists, have been returned to their native homeland of French Polynesia, 25 years after they were wiped out by a human-introduced invasive species.

We worked alongside other leading zoos and the French Polynesian Government to coordinate a conservation breeding programme which involved the offspring of the last individuals found in the Society Islands in the 1990s.



The reintroduction focused on two species, *Partula rosea* and *Partula varia*, and several thousand were carefully transported over 15,000km from Chester Zoo to the French Polynesian Islands.

In the last five years there's been a total of 14 different snail species and sub-species that have been reintroduced to French Polynesia, making this the world's largest reintroduction programme.

Partula snails are a family of snail species incredibly valuable to the scientific community, having been studied for more than a century as their isolated habitat provides the perfect conditions to study evolution. Due to the valuable information gathered from the studies, conservationists were alerted to the fact that an invasive species was decimating populations, allowing the zoo community to pull together a global action plan for the species.

Most of the Society Islands' endemic snails were wiped out in the 1980s and early 1990s, after the invasive predatory rosy wolf snail was introduced to rid the islands of a previously introduced alien species, the African giant land snail. Unfortunately, the predatory rosy wolf snail targeted the endemic snails instead,

RETURNED TO THE WILD FOR FIRST TIME in 25 YEARS

and across the region – many species were lost or pushed close to extinction shortly after the predator's arrival.

The last few surviving individuals of some of the species were rescued in September 1994 in order to begin the international conservation breeding programme. Others were already being studied at universities around the world, and it was these individuals that formed the source group to begin breeding to re-populate the Islands.



The reintroduction programme is helping to bring the species back from the brink of EXTINCTION and shows what can be achieved when the international conservation community works together.

Dr Gerardo Garcia, our Curator of Lower Vertebrates and Invertebrates, said:

'It's incredible to be involved in a project that has prevented the extinction of a species.'

'Breeding and nurturing more than 2,000 snails requires years of dedication – so to see these animals released into their historic homeland was a very emotional moment.'

'Crucially, this also marks the return of a connection between the species and the local community. The snail's place at the heart of the nation's culture and tradition is crucial to their survival. On the island of Huahine, future generations will live side-by-side with the species once again. Together with valley communities there, we can safeguard a brighter future for snails.'

Competition **KIDS' ZOO**

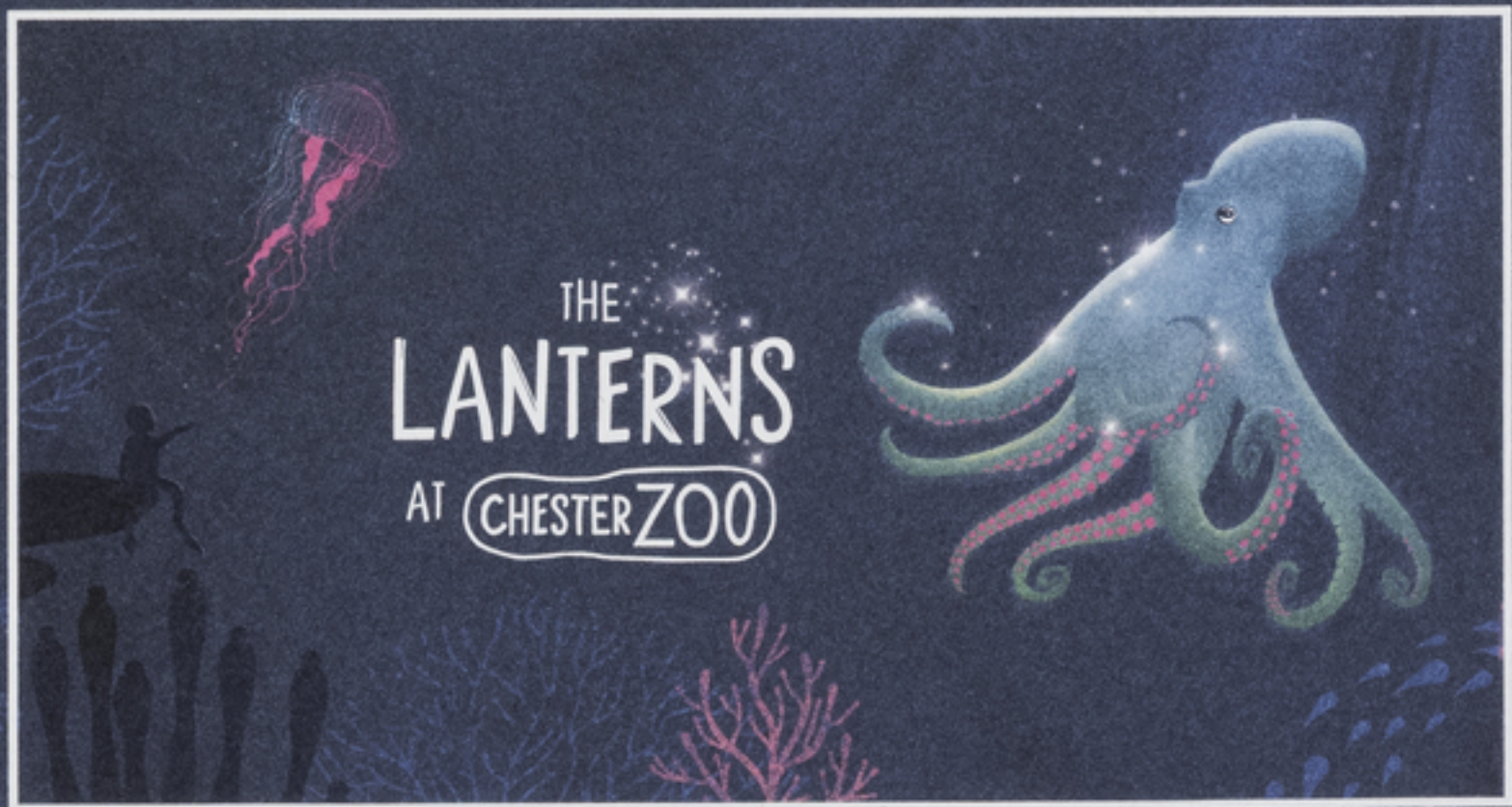


This year at The Lanterns, we're diving into the depths of the ocean in our **NEW** Underwater world! Float your way through a tangle of dazzling jellyfish as you paddle past phosphorescent fish and come face-to-face with a giant glowing octopus lying in wait for passing explorers...

But before you take a dive into this watery wonderland, take on the challenge of our Underwater **SPOT THE DIFFERENCE!** Take a look at the two pictures below and see if you can spot the **SIX** differences, then send us your answers for a chance of winning a wintery Chester Zoo prize!



BOOK NOW
22 November
to 23 December



Send your answers to:
Z Magazine, Marketing Department, Chester Zoo, Upton-by-Chester, Chester, CH2 1LH
or email marketing@chesterzoo.org by 31 January 2020

Junior Programme 2020

Discover, explore, share & learn

In 2020 we're launching some brand **NEW!** activities available to Junior Members. We have a huge variety of events that are available throughout the year.



NEW!

Junior Ranger Training Camps 2020 (8-11 years)

Are you aged 8 - 11? Do you love wildlife? If so, Junior Rangers will be perfect for you! The Training Camps run every Sunday for FIVE weeks. Each week we explore different parts of the zoo and learn about our amazing animals and incredible conservation work.

You can now book for our blocks running from 12 January - 9 February. **Booking now available.**

Weekend Woodland Adventure Club (8-11 years)

Join us for six fun-filled sessions at our secret Chester Zoo Woodland Camp led by trainee Forest School Practitioners. We'll be exploring the outdoors and discovering how to find and protect our marvellous UK native species. This club runs every Sunday for six weeks.

Choose from morning sessions (10am - 12pm) OR afternoon sessions (2pm - 4pm). It's suitable for children aged 8 - 11 only, who are happy being out and about whatever the weather! **Booking now available.**

Little Monkey Mornings (under 5 years)

Got a little monkey in the family? We're hosting coffee mornings with a difference. Join us for our terrific tots sessions full of animal fun. Sessions are run in alternate locations between Bembe Coffee Shop and Jaguar Coffee Shop every Wednesday 10.30 - 11.30 from 8 January until 23 March during term time only. These activities are suitable for children under 5 and are best suited to 1 - 3 year olds.

Date: 8 January until 23 March. **Booking available in January 2020.**

HOLIDAY CLUB

Primary School Years 1-6

Our holiday activity clubs are perfect for animal lovers and conservationists of the future.

Discover the amazing animals, habitats and the remarkable conservation work taking place all around the world through a range of fun activities both in and out of our learning centre.

Week 1 27 July - 31 July, Year 4 - Year 6

Week 2 4 August - 6 August, Year 1 - Year 3

Week 3 10 August - 14 August, Year 4 - Year 6

Week 4 18 August - 20 August, Year 1 - Year 3

The holiday club runs from 9am - 4.30pm, with free early drop-off available from 8.30am.

Booking available in January 2020

BOOK ON OUR WEBSITE chesterzoo.org/events

Junior Programme 2020

Discover, explore, share & learn



Places are limited & often get snapped up fast, so make sure you **BOOK SOON!**
chesterzoo.org/events

SKILLS COURSES

Throughout the year we'll be running a series of exciting courses for young people between the ages of 12 - 17. You'll get practical experience, learn loads of new skills and you don't need to be a wildlife expert - anybody can get involved!

Cooking for Conservation (14-17 years)

What we eat and how we cook affects our health and the health of our planet. We have an exciting opportunity for you to join our top chefs at The Oakfield to explore the world of sustainable cooking. This three day course will take you through practical workshops and demonstrations, finishing in a MasterChef-style competition with an opportunity to impress our Head Chefs!

Date: Monday 6 - Wednesday 8 April. **Booking now available.**



Conservation Technology (12-15 years)

From camera traps to satellites and drones, conservation technology is increasingly critical to ensuring that people and nature thrive. Join our conservation team over three days for an exciting introduction into some of this technology and how it's being used as a powerful tool for conservation and ecological research across the globe.

Date: Every Saturday for three weeks, from Saturday 2 May - Saturday 16 May. **Booking available in January 2020.**

Evening Meets (15-17 years)

This year we are launching a series of relaxed early evening meets for young people with a wide variety of interests but with one thing in common, a passion for preventing extinction. We have some truly inspiring people and projects at the zoo and around the world. This is your opportunity to meet some of our experts and find out about their job role and career pathways. If you are 15 - 17 come and join us!

Date: Meet the Scientists Wednesday 11 March
Meet the Keepers Wednesday 1 July. **Booking available in January 2020.**



NEW!

SUMMER ACTIVITIES

We've got some amazing new summer activities for 12 - 17 year olds that will inspire and entertain!

Young Conservationists Summer School (12-17 years)

Our summer school has been developed for those aged between 12 - 17 years, who are interested in a career working with animals, conservation, research or veterinary. During the week, young people will be immersed into the world of Chester Zoo with sessions and activities led by our experts, including practical activities and theory sessions, both indoors and outdoors.

Date: 3 - 7 August. The summer school runs from 9am - 4.30pm, with free early drop off available from 8.30am. **Booking available in January 2020.**



Coding For Conservation (15-17 years)

Do you like playing games? Are you interested in making games? Here at the zoo, we've been making some games to create conservation change and need your help! Over the course of five days you will learn all about the zoo, from science, marketing and creative media - then armed with that inside knowledge, we'll take you on a journey of creating a 'choose your own' adventure game to help others learn about conservation! If you are aged between 15 - 17 this is the perfect opportunity for you. You will be introduced to the skills of digital media content creation and the methods needed to design and make a playable game with our game experts.

Date: 24 - 28 August. **Booking available in January 2020.**



You can find out more and book on our website chesterzoo.org/events



CHESTER ZOO

Meet the Exhibitions and Interpretation team



Communicating our messages at the zoo

You may never see our Exhibitions & Interpretation team during your visit, but you'll certainly come across a huge array of their work around the zoo!

"We're responsible for delivering all the signage, interactives, audio, visuals, visitor theming and models across the zoo. We cover everything relating to our plants and animals, conservation, people, and our mission that visitors engage with in the zoo. We also work with field partners around the world to develop their education centres, field centres and nature reserves to better engage their audiences.

"Currently we're a team of four, with a Manager, Senior Officer, Officer and Graphic Designer. A classic day is different for each of us, and each day brings new challenges. In any given day we can be researching, writing, designing, meeting with contractors, attending strategic meetings, consulting with curators and keepers, working with artists, conducting maintenance checks or visiting new build sites.

"Communicating with other teams across the zoo is one of the most important part of our roles. We work closely with nearly every department, and every piece of interpretation you see has had input from multiple teams. And of course we work with a wide variety of external people too. We translate specialist information provided by these teams into a zoo voice, making it more accessible for our audience.

"To prevent extinction, our visitors need to understand and care about what they see here. On the most basic level, they need to know what species they're looking at to inspire that first connection to nature.



"On a deeper level, we want to highlight the threats faced by these species, their habitats and the people living among them. Most importantly, we want to show our visitors there's something they can do, and empower them to take action in their own lives.

"A large proportion of our audience won't manage to engage with our Learning team during their visit. Therefore providing them with a means to engage with our species and our work as they explore the zoo is vital. We also have an opportunity to engage them in completely different ways, such as through interactives, digital games, audio and visual material and immersive theming. It's these additional experiences that really help connect visitors to our mission and enthuse them to take action.

"All our projects are different. This year alone we've produced major contributions to the Madagascar lemur walkthrough and lions habitat as part of the strategic development plan (SDP), as well as many key interpretation updates including jaguars, The Plant Project, monkeys and Wildlife Connections. Recently we've been focusing on digital and interactives to improve the visitor experience. While these have proved the most technically challenging, they've also been the most rewarding in terms of developing our skills in these areas. Most importantly, they're providing quality engagements for our visitors.

"When we're planning projects, we first understand the messages we're trying to get across, and understand and justify the best methods to achieve these. In some situations, the best approach is through videos, animations, games and digital interactives. These types of media offer more dynamic learning experiences for visitors, going beyond just signage.

"We're excited about our various upcoming works, particularly Grasslands. Having worked on the similarly large Islands project in 2015, we understand how major this challenge will be. Since Islands, we've increased our skillset and will continue producing a wide selection of signage, interactives and digital offerings that will make our visitors' journey come to life."



IMPORTANCE OF DIGITAL LEARNING

Meet Lauren, our Digital Learning Officer...

I'm the digital strand to our learning programme, which includes engaging with our online education audience, creating multimedia resources for learning, developing 360 immersive content for our classroom on Islands and working with our audiences to use technology and media to support our campaigns...and much more!

My job is incredibly varied. I could be working with externals to develop new animations for our 360 space or I might be editing a new video resource to upload to our online learning resources for schools. Every day is different!

Our own team is actually quite large, with over 40 people working within Discovery & Learning department; so first of all, I work across my own department to establish needs for digital interventions and engagement tools to support the work they're doing. Collaboration is so important within the zoo to accomplish our mission of preventing extinction, so I also work with our Marketing, Science and Field Programmes departments to work out the best stories to tell in digital form.

The digital world is all around us; it's how a lot of people connect on a daily basis, so it's so important that we're engaging with people online as well as in the zoo. It's also really important to us that our mission and messages are available to everyone who wants to be involved, even if they can't get to the zoo itself!

We do a lot of video and animation work and we also love a good singalong song! Over the last few years we've worked with songwriter, Ashley Fayth, to write three songs that go with some of our main campaigns: The Palm Oil Conga, Sing for Songbirds and our latest song, Wildlife Connections.

We also create lots of curriculum based, online learning resources which are completely free to download and they

provide great opportunities for learning to extend our in-zoo and in-school workshops that our team provide.

Within the zoo, our Sumba House (360 space) allows us to take people to places we just can't physically take them to, by projecting imagery from around the globe and immersing them in the sounds of a bird market of Indonesia, or taking them back in time to see how evolution happened. It's incredible what you can do using digital technology. We want to excite and enthrall people and encourage them to ask questions. By being able to take people inside strands of DNA or to the rainforests of Borneo, without leaving Chester, we hope to bring people just a few steps closer to wildlife, nature and caring about conservation action.



Check out our online learning resources to explore lots of topics for all ages: chesterzoo.org/schools/resources

Remember to follow us on Twitter @LearnatCZ and sign up to our e-newsletter for school's to find out all our latest education news!

SIGNAGE SUCCESS!

SINCE 2016, WE'VE BEEN WORKING ACROSS THE ZOO TO REVAMP EVERY PIECE OF SIGNAGE.

This includes new research, content, updated storylines and bringing everything in line with the zoo brand. A recent count indicates we've replaced over 1,500 individual signs around the zoo. It's been a huge effort contributed to by many people, and has made a massivedifference in the way we communicate to our visitors.



Monsoon Forest



A year ago we experienced one of the most difficult days in Chester Zoo's long history when a fire broke out in our Monsoon Forest habitat. The extraordinary efforts of the zoo team and the emergency services meant the fire was quickly extinguished and all visitors and mammal species were safely evacuated, although losing a small number of frog, fish and bird species was, of course, devastating.

The incredible bonds between the zoo's keepers and the animals under their care meant we were able to encourage all mammal species away from the fire and to safety – including groups of critically endangered Sumatran orangutans and Sulawesi macaques, endangered silvery gibbons, as well birds such as rhinoceros hornbills and large reptiles like the Asian forest tortoise.

New homes were found around the zoo for the rescued species and we're delighted to see they have all recovered extremely well. Indeed, only last month, Sumatran orangutan Subis, one of those many animals led to safety, gave birth to a healthy baby - a wonderful boost to our ongoing efforts to prevent the extinction of this precious species.

Monsoon Forest is the UK's largest indoor zoo habitat. It's a wonderfully complex, complicated, completely unique building and so the efforts to rebuild have been mammoth.

After an initial lengthy period of planning, the road to recovery started with assessing the damage to the structure and the roof, and clearing the debris. Then, work began in earnest, with the

removal of all the roof trusses to get them thoroughly cleaned and repainted. These were individually repositioned and the new roof fully installed in early November, making the building weather tight once again. With this external work completed, we can now get going with reheating all parts of the building, refurbishing the inside, and beginning to replant all the exotic plant species that were previously found there, before any animal species move back in.



one year on...

The costs to rebuild Monsoon Forest were covered completely by our insurance, however we were humbled to receive an incredible number of requests from the public who wanted to support us as news of the fire broke. As a wildlife conservation charity with a mission to prevent extinction, we set up a Just Giving page to support conservation work for South East Asian species, some of which are found in Monsoon Forest. We were overwhelmed by the generosity of the local community, members, visitors and the general public alike, and were inundated with spontaneous donations, raising over £260,000.



This fund is already making a huge difference, and will continue to do so, across several life-saving wildlife protection projects. Here's how:

- We are supporting the Borneo Nature Foundation to safeguard the largest remaining protected population of critically endangered Bornean orangutans in the world; fighting forest fires and restoring fire-damaged habitat in Sebangau National Park in Indonesia
- We've begun preparatory work to deliver a brand new project in South East Asia to prevent the extinction of the stunningly beautiful bleeding toad
- We'll be delivering a project to conserve some of the world's most endangered carnivorous plants, known as pitcher plants or *Nepenthes*
- And here at the zoo, we're using a portion of the fund to enhance the refurbished habitats for critically endangered Sumatran orangutans and threatened Indonesian hornbills. These new, specially designed adaptations will further enrich the animals' environments and improve our conservation breeding work, while giving people the opportunity to see first-hand how their kind donations have boosted our efforts to prevent extinction.



Find out more about how we're making a difference to South East Asian species
chesterzoo.org/news

CHRISTMAS SHOPPING

AT
CHESTER ZOO



THIS CHRISTMAS, COME AND EXPERIENCE A WINTER WONDERLAND AS THE CHESTER ZOO SHOP TRANSFORMS INTO A FESTIVE TREASURE TROVE. FIND INSPIRATIONAL GIFTS FROM THE CONTEMPORARY TO THE TRADITIONAL WITH EVERYTHING YOU NEED FOR A FUN-FILLED FAMILY CHRISTMAS...

1 NOAH'S ARK

Not just two by two...this beautifully crafted collection is full to the brim of festive animal fun! Keep little hands busy with the Playmobile advent calendar or have endless hours of creative fun with the Christmas collectable set. These family favourites are built to last and guaranteed to put a smile on faces not just at Christmas, but all year round.

2 POLAR

The winter mornings may be icy, but these polar themed pieces will warm your heart – and hands! Tumble into a magical winter wonderland of majestic musical lanterns, shimmering scented candles and traditional winter warmers. Keep loved ones warm and cosy with socks, scarfs and hats in calming winter hues – perfect for those polar winter days.

3 PERSONALISATION

Our in-store personalisation zone has had a festive revamp! Add a sprinkling of bespoke Christmas magic and surprise friends and family with a customised, one-of-a-kind gift. Choose from our unique range of decorations, souvenirs and seasonal Handimals, as well as lots of new edible treats in store.

4 TRADITIONAL DECORATIONS

This year, traditionally crafted Kenyan BeadWORKS decorations return to Chester Zoo. Lovingly handmade by the amazing women of Lewa, the authentic and contemporary hand beaded products support women, wildlife, communities and conservation. We'll also have a selection of handcrafted decorations made by St Nicolas in India using a highly skilled embroidery technique.

5 BOOKS

What better way to celebrate the holidays with your children than by reading a Christmas book! We've added to our range of 300 titles with family favourites and new releases. You won't want to miss irresistibly funny 'The Dinosaur that pooped Christmas' which is guaranteed to have the whole family laughing!



LOOKING FOR A UNIQUE GIFT FOR FAMILY AND FRIENDS THIS YEAR, THEN LOOK NO FURTHER!



WE HAVE A RANGE OF EXTRA SPECIAL GIFTS AND EXPERIENCE PACKAGES AVAILABLE AT THE ZOO AND ONLINE...

6 AFTERNOON TEA AT THE OAKFIELD

Treat someone to a gift voucher for our delicious Afternoon Tea experience in the stunning setting of The Oakfield.

This Grade II listed building, has been lovingly restored to celebrate the rich heritage of Chester Zoo serving locally sourced seasonal food and drink. Prepare to be impressed by a spread of freshly prepared finger sandwiches, sweet treats and teas. Or even a cheeky prosecco!

7 GIFT VOUCHERS & GIFT TICKETS

Your friends and family will go wild for our gift vouchers and tickets!

They can be used towards admission to the zoo or spent in our shops, cafes and kiosks. Packaged in a small gift wallet, make someone's day extra zooper!

8 CHESTER ZOO EXPERIENCE DAYS

A Chester Zoo experience day offers a unique opportunity to get closer to our animals and plants, with expert knowledge from our staff - the perfect gift for animal lovers!

You'll get exclusive, behind-the-scenes access that will give you an insight into the daily lives of our staff and animals at the zoo. A Chester Zoo experience day can involve anything from potting a carnivorous plant to getting up close and personal with a giraffe!

Members and adopters receive a 10% discount when purchasing on the phone via the sales team and for a limited time only we are offering all members a 15% discount off any 2019 or 2020 Fruit Bat experience.

9 CAPTURE THE MOMENT PHOTOGRAPHY COURSES

Treat the budding photographer in your life to a course led by experienced photographers in the wonderful setting of Chester Zoo.

You'll be led through the course by our fantastic tutors who all come with a wealth of skills and experience. Breakfast and lunch will also be provided, and there will be plenty of time spent in the zoo photographing our animals and native wildlife.

These workshops also include an additional free ticket that can be used up to one month after the course, so you can put your skills into practice!

Purchase your gifts and experiences online or with our Sales & Events team via events@chesterzoo.org or 01244 650209



WANTS YOU...

We are looking for young people aged 18 – 25 to help shape our future direction and help us develop our appeal to teenagers and young adults.

We're working towards programmes, events and activities that appeal to 12 – 25 year olds. As part of this work we are pleased to launch a brand new Youth Board at the zoo to become the voice of young people.

Our Youth Board will work with our board of Trustees and our executive team, including our Directors, to develop the zoo's approach to working with young people. They will meet as a Board six times per year and may also take part in a number of other projects and initiatives to support the development of our programmes.

We want to listen to your ideas and work together to make the Zoo programmes for young people the best they can be. Whatever your background, interest or expertise, if you're interested in shaping the future of Chester Zoo for young people like yourself and others, then we want to hear from you!

To be eligible to be part of the Chester Zoo Youth Board you need to:

- Be between 18 - 25 years old (inclusive)
- Enjoy working as part of a team
- Want to share your ideas and experience with us
- Be keen to support the zoo to develop a new programme for 12-25 year olds that will engage them with wildlife and empower them to take action in support of our mission of preventing extinction
- Live within 60 minutes travel time of Chester Zoo
- Be willing and able to attend six Youth Board meetings at the zoo each year. Youth Board meetings will take place on Fridays and Saturdays throughout the year, although occasional attendance on other days may be required and a flexible approach is needed.
- Commit to being part of the Youth Board for a minimum of two years from appointment or until your 26th birthday if that is sooner.
- Not be an existing member of zoo staff.

Young People
18-25

to join our **YOUTH BOARD!**

Skills

interest

To find out more about becoming a Youth Board member and to apply, visit:

chesterzoo.org/youthboard

If you have any questions about our Youth Board please contact us via

youthboard@chesterzoo.org

Application closing date is **Sunday 15 December**

Please note that applicants will be required to complete a short task.

Shaping the future



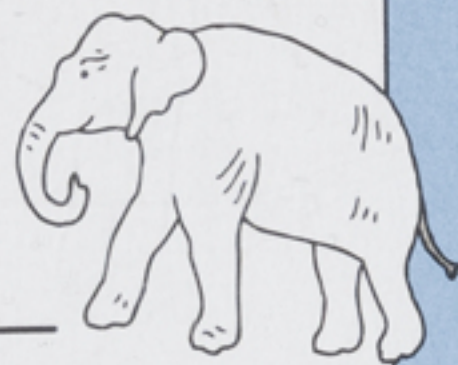
Voice for change

2019 ROUNDUP

This year has been HUGE!

With our partners, supporters and friends, we are taking small steps and giant leaps towards **PREVENTING EXTINCTION!**

From the bottom of our hearts... A *HUGE* thank you and Merry Christmas from everyone at Chester Zoo!



We've welcomed new faces, with the births of many exotic and endangered animals, including Socorro doves, giraffes, a chimp, a Malayan tapir, a bongo and a couple of fluffy red panda cubs to name a few...

We also made ground-breaking progress with our research into the deadly virus, EEHV, when our Asian elephant calf, Indali survived a breakout of the disease. Thanks to money raised through our Never Forget campaign, our team was able to use new methods that successfully pulled Indali back to full health – a rare survival case for EEHV, and great news for the future of Asian elephants in zoos and in the wild.



We also had many conservation success stories, including an amazing translocation of eastern black rhinos from zoos across Europe into the wild in Rwanda. Our CEO, Dr Mark Pilgrim was heavily involved in the process as the population manager for the species. We also reintroduced snails in Bermuda, carnivorous plants in Wales, and large heath butterflies in the North West! We also announced that the outstanding amount of money raised following the Monsoon Forest fire would be allocated to five projects helping species from South East Asia, and have already seen some fantastic results.

At the zoo we saw many exciting and enthralling events and activities which brought visitors in in their masses, making 2019 a record-breaking year for visitor numbers! We kick-started the year with an exhibition of Big Cats made entirely from toy bricks, then travelled back in time with some giant prehistoric Predators, finishing the year on a Great Christmas Expedition with the return of

The Lanterns. We also opened TWO new habitats; Madagascar opened in March and is now home sweet home to a variety of lemurs and the East African island's top predator, the fossa; and if you visited us from October onwards, you will have noticed our pride of Asiatic lions have move to a brand spanking new habitat, with a massive amount of space and top quality facilities.





We had some **exciting events**, such as our Summer Stampede, raising money for our Never Forget campaign, and the Wildlife Connections Festival, which brought a huge number of visitors closer to UK wildlife through awesome activities and performances.



In March we were really excited to announce that we had successfully become the **WORLD'S FIRST** Sustainable Palm Oil City, following years of hard work to achieve this. We're pleased to say that the work hasn't stopped there, and we were ecstatic to announce that more cities have come on board with the campaign in September.

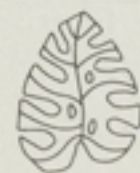
We also launched a fantastic new website back in April, which has really improved usability for visitors to the site. And we sadly said goodbye to our monorail after 28 years of service as part of our strategic development plan long term, but we're excited for everyone to now see how the zoo develops following this!

We were pleased to announce that The Secret Life of the Zoo returned for its 8th series this October, and continues to showcase the remarkable work of the teams here at the zoo, as well as all our amazing animals!

Our Discovery & Learning team has had a busy year, welcoming record numbers of education visits, including **35,000 FREE school places** for children in the North West and North Wales. **AND** for the first time ever, we invited school children to the zoo for a 'takeover' day, where they delivered our educational activities and talks.

What to look out for in 2020

We're looking forward to another incredible year with loads more for visitors to get involved in! We'll be reopening a fully refurbished Monsoon Forest, as well as a brand new walk-through flamingo habitat. And that's just the start...! There's always something new at Chester Zoo, so keep an eye out on what's coming up by signing up to our emails and following our social media.



CHESTER ZOO

GIN

We're excited to announce that we're launching our very own Chester Zoo gin in 2020!

We want to give visitors a little taste of the Zoo so we bottled this delicious gin, exclusively for you! This London dry gin is full of flavours from the zoo, in a unique recipe using natural botanicals.

The Chester Zoo gin has been distilled with dandelion, chicory and banana leaf, all of which have been grown at the zoo by our fantastic Horticulture & Botany team. The ingredients hand-picked by the team are all inspired by our animal diets and enrichment we provide for them from our own greenhouses and gardens.

We've partnered with The Old Curiosity Distillery to produce this tasty tittle. Our Food & Beverage team (our resident gin experts), and the Horticulture & Botany team have been working closely with The Old Curiosity to ensure this gin captures the zoo perfectly and has an extraordinary taste that can be found nowhere else.

The Chester Zoo gin will hit the shelves of The Oakfield in the New Year, so you can pop in during your visit this winter, treat yourself to a beverage and warm yourself in front of our fire.

The gin will also soon be available from our retail outlets, so you can gift someone a little bit of Chester Zoo bottled-up! Perfectly paired with tonic and ice, this delicious drink won't disappoint!

Be the first to taste our brand new gin in 2020





FEEDING TIME at the zoo!

With so many different mouths to feed, from Asian elephants to large heath butterfly caterpillars...

...our onsite Nutritionist, Cathrine Sauer, talked to Z about the mighty challenge of creating optimum dietary plans for more than **27,000 animals!**...



“My job is to make sure every single one of our animals gets a nutritionally balanced diet which mirrors, as closely as possible, the diets that they consume in the wild. Nutrition is critical in relation to growth, reproduction, health and disease prevention and so ensuring a balanced diet is absolutely vital – it’s also scientifically proven that healthy animals are more successful when it comes to breeding.

“With such a vast array of species to consider, there are lots of ingredients to think about. We feed the large carnivores a variety of meat including calves, rabbits or chickens, and the smaller carnivores are fed mice and rats. Herbivores get a variety of plant materials such as hay, branches with leaves and leafy greens. The majority of the animals also receive dry pellets full of vitamins and minerals, which helps us to make sure they’re getting everything they need.

“Many of the animals at the zoo are fed daily but, in the wild, an animal could spend days looking for food. We therefore look for ways to be creative and clever in how we present food as we want the animals to spend a lot of time looking for it. Zookeepers will, for example, provide challenges such as hiding honey around the Andean bear habitat or placing food on top of a pole for the jaguars.

“When new species are due to arrive at the zoo I create a diet sheet specifically for them. I research the wild diet of the animal and then have a meeting with the team manager and curator, who will be caring for the animal, to decide on how we can best reflect that diet with the food items we then have available to us. If we require a particular ingredient that’s not currently available, I’ll liaise with our Animal Supplies team who will then make efforts to source that foodstuff, before the animal arrives here.”

The zoo's *Animal Supplies team* is responsible for sourcing, growing and delivering everything that the diverse range of species at the zoo require.



Our *Animal Supplies Manager*, Chris Gee, explains what's like managing the complex logistical operation...

“One of the many things I love about my job is getting to go around the zoo first thing in the morning before anyone else arrives. We drop supplies off within the zoo from 7am every day of the week and it’s such a privilege to see the animals waking up and exploring their habitats before anyone else. I never tire of it.

“Delivering the food each morning is just the start and my team spends a lot of the day collecting browse (essentially tree branches) that we feed too many of our herbivores, including the rhinos and giraffes, from different sites around Cheshire. We work closely with farmers and tree surgeons who contact us asking us to collect the browse they want removing, so we are using natural resources rather than them going to waste. This is just one way we are trying to be more sustainable. We also have plantations on site, which means we’re growing some of our food ourselves.

“Once the animals have consumed their food, we then have to consider what happens with what comes out of the other end! My team is also responsible for handling our waste and we remove an estimated 50 tonnes every week. Again, we strive for sustainability in this area and so, for example, we take our herbivore waste to a local farm where it’s used for spreading on fields. Everything is used.”



HOW DO CORPORATE PARTNERSHIPS HELP PREVENT EXTINCTION?

Our partnerships are all different and all brilliant. We're super lucky to have such a wonderful group of supporters who work with us to further our mission, and they help us in a multitude of ways. With their support, we have been able to:

- Plant 5000 trees in a reforested oil palm plantation along the Kinabatangan River in Borneo
- Begin a monitoring survey on our estate to see which bat species have made the zoo their home
- Provide kit for a mobile lab in Kenya which monitors critically endangered eastern black rhinos
- Provide coach travel for schools so they can visit the zoo for free as part of our Safari Ranger campaigns
- Ensure our overseas team are wearing the best technical kit when they are working in the field



These companies have played a big part in preventing extinction in 2019, and we want to say a big thank you to them for supporting our conservation and education work, both right here in Chester and all over the world!

THANK YOU

3d Squared	Craghoppers	Rhino Products
Airbus	Darwin Escapes	Saputo Dairy UK
Bamboo	M&S Bank	Stagecoach
Bank of America	MBNA	Sykes Cottages
Barclays Bank	MECX Group	The Alchemist
Co-op	Oddfellows	Toyota

If you'd like to find out more about how your company can help prevent extinction, email our Corporate Giving Specialist, Rose on r.gelder@chesterzoo.org



RACE FOR THE RAINFOREST

HUGE thanks to Rob McKay and all the lovely racers and sponsors who came to the launch event for Race for the Rainforest in September! Don't forget you can also support this incredible challenge and help us PREVENT EXTINCTION in Borneo.

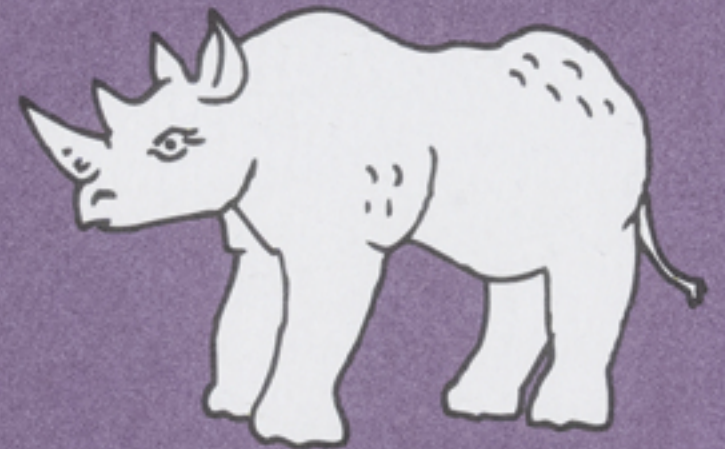
To find out more, please visit chesterzoo.org/racefortherainforest

DO YOU FANCY BEING A



CHESTER ZOO

VOLUNTEER?



When you volunteer at Chester Zoo, you have the opportunity to **SHARE YOUR PASSION** and knowledge for the zoo and its amazing species.

Your time engaging with visitors about our conservation work can **HELP US IN ACHIEVING OUR MISSION** of preventing extinction.


If you are a good communicator and passionate about conservation and animals in the UK and around the world, then this might be the role for you. You need to be a minimum age of 18 and able to spend time in the zoo, whatever the weather!


We'll help you to learn the information you'll need to talk to visitors and deal with situations, supporting you to grow in confidence. We offer volunteers five training days, once a week for five weeks. You will then join an amazing network of

190 volunteers who will support you in your first six weeks of volunteering in the zoo. Our Buddy scheme gives you the opportunity to meet new people and learn even more about the species.

We'll be holding open days to give you more information about this opportunity in early January. There will be limited spaces available so please email volunteers@chesterzoo.org to find out how to book. We would really love to hear from you!

What do our volunteers think about working at the zoo...?

 "It's one of the most rewarding experiences I've had, being able to engage with visitors young and old about the amazing conservation work that Chester Zoo undertakes."

"I would highly recommend the role of a volunteer; 
I am really enjoying the experience of engaging with the visitors, working as part of a great team, gaining knowledge and confidence all the time."

www.chesterzoo.org/volunteers

These volunteering roles are public facing and do not involve working directly with animals. Our roles are very flexible, but most volunteers work with us for a half day or more each week.

Talking Conservation

Winter/Spring
2020
Programme

If you'd like to find out more about how your membership helps fund vital conservation work, then pop along to one of our brilliant membership talks.

Tuesday 11 February

OAKFIELD LIONS: END OF AN ERA! WITH THE CARNIVORE TEAM

When the first lions were brought to the zoo in the 1940s, their habitat was one of the first to be built using 12 foot chain link, following George Mottershead's vision for a "zoo without bars".

The habitat has always be a main focal point for the zoo, being located just outside The Oakfield, and is almost 80

years old! To provide an even more enriching environment for our lions and better facilities, this year we have opened a brand new, much bigger, and more immersive habitat for Asiatic lions. Our talk will cover the past, present and future of our lions at the zoo and the all-important move!

Come along and have a roarsome time!



Come along and find out more!

Thursday 19 March at 7:30

**UNDERSTANDING DEMAND FOR
SONGBIRDS DRIVING THE
ASIAN SONGBIRD CRISIS**

HARRY MARSHALL

Many songbird species are declining at alarming rates across South East Asia, triggering an 'Asian Songbird Crisis', and Indonesia is considered the biggest source of supply and demand driving songbird declines.

Harry's PhD research, funded by Chester Zoo, seeks to examine the problem of the overexploitation of wild birds as pets by quantifying the scale of demand on the island of Java, and exploring the attitudes and motivations of songbird keepers. In this presentation, Harry will discuss the Asian songbird crisis and how his PhD research will contribute to attempts to reduce demand.

Harry Marshall is a final year PhD student in Conservation Social Science at Manchester Metropolitan University (MMU). During his career, Harry has worked on projects



across the conservation spectrum around the globe including chimpanzee rehabilitation, monitoring spider monkey behavioural ecology, and evaluating a livestock compensation scheme. His PhD is funded by both Chester Zoo and MMU, with additional support from Oriental Bird Club and Birdlife International.

Thursday 23 April at 7:30

**BEHAVIOUR AND BIOMARKER SCIENCE
AT CHESTER ZOO**

Monitoring the hormones and behaviour of our animals is important for husbandry and conservation breeding decisions

Members of the Science team will take you through examples of how these disciplines have contributed to animal health and wellbeing and the future scientific directions in this field.

Leah Williams - Conservation Scientist in Behaviour and Welfare

Kat Finch - Scientific Assistant - Behaviour and Welfare

John O'Hanlon - Laboratory Technician

Katie Edwards - Lead Conservation Scientist in Biomarker Development



MEMBERS' TALKS BOOKING IS ESSENTIAL

All of our members' talks are held in the Lecture Theatre, near the zoo's main entrance off the A41, and start at 7.30pm.

- FREE to members (please bring your membership card and welcome letter)
- We offer a special rate of £2 to Adopters

- Members of the public and guests are welcome (£3.50 for non-members)
- Our Lecture Theatre seats up to 158
- Post-talk refreshments give you the opportunity to have an informal chat with speakers, zoo staff and fellow members

Interested in attending?

Booking is available through our website, or you can contact our Sales & Events team via events@chesterzoo.org or 01244 650209



There's always a warm welcome at The Oakfield

Join us this winter in the cosy setting of our contemporary British pub, The Oakfield. Enjoy locally sourced food in this stunning venue located at the heart of Chester Zoo

www.theoakfield.org    @TheOakfieldatCZ

Chester Zoo
Upton-by-Chester
Chester CH2 1LH

Tel: 01244 380280
Email: info@chesterzoo.org
www.chesterzoo.org

Our Chester Zoo Z magazine has been produced using vegetable based printing inks and is printed on sustainable FSC resourced uncoated paper. The outer packaging and magazine are also fully recyclable