

CAREERS IN STEM WEBINARS

ROLE MODEL SERIES – Giving students the opportunity to meet Australian scientists and engineers



Dr Erin Hahn

Would you like to time travel?

11 November – 2.00pm (AEDT)

Read [this article](#) by Dr Hahn

<https://theconversation.com/old-goopy-museum-specimens-can-tell-fascinating-stories-of-wildlife-history-finally-we-can-read-them-165013>

Why did museums collect biological specimens?
.....
.....

How do you think they can make comparisons without DNA?
.....
.....

How is drying better for DNA extraction than Formaldehyde?
.....
.....

Why are museum curators hesitant about submitting specimens to analysis?
.....
.....

What is something Erin's work has done to increase the success of extraction?
.....
.....

Here's a link to a book on biodiversity called Numbers of Living Species in Australia and the World. What does the term Endemic mean?
www.awe.gov.au/science-research/abrs/publications/other/numbers-living-species/contents
.....
.....

From the Executive Summary, approximately what percentage of mammals and birds in Australia are endemic?
.....

Find the section on Flowering Plants and find what is the latest estimate for the number native Australian flowering plants. Approximately how many of these are endemic? How many are threatened?
.....
.....

In Erin's article she mentions the Atlas of Living Australia.

Here's a link where you can see what species are in your area.

<https://biocache.ala.org.au/explore/your-area>

Have a look at the Mammals, birds and plants that are around your house or school. Then take a look at perhaps where other family members live or a city in another state. What differences in the types of birds can you see?
.....
.....

Do you see the plant types change with distance from water?
.....
.....

Supported by Victorian Challenge and Enrichment Series (VCES)

[YouTube > STELR Project](#)

[Facebook > STELR](#)

[Twitter > @STELRproject](#)

STELR

An initiative of the Australian Academy of Technology & Engineering

Level 2, 28 National Circuit, Forrest ACT 2603

PO Box 4776, Kingston ACT 2604

STELR.Admin@atse.org.au



Australian Academy of
Technology & Engineering