



PROGRAM





Shorebirds and Wetlands: A lesson in Science and Sustainability

Teacher Professional Development Session

Wednesday 28 April 2021

Time	Details
4.00pm – 4.05pm	Official welcome and introduction.
	Presenter: Dr Stephanie McCreedy, Community and Primary Education Manager, ANSTO
4.05pm – 4.20pm	Presentation 1: Shorebirds – What are they, why do they matter and their migration story
	Presenter: Milly Formby, Migratory Shorebirds Program Officer (Newcastle Office) Birdlife Australia
4.20pm – 4.30pm	Presentation 2: Threats to Shorebirds at the local level
	Presenter: Julie Keating, Citizen Scientist
4.30pm – 4.40pm	Presentation 3: Wetlands – Their ecology and importance
	Presenter: Dr Debashish Mazumder, Senior Research Scientist, ANSTO
4.40pm – 4.50pm	Presentation 4: Linking wetlands and the Feathermap project
	Presenter: Dr Kate Brandis, Senior Research Scientist, Centre for Ecosystem Science, UNSW
4.50pm – 5.00pm	Question and Answer Session
	Chaired by: ANSTO.
5.00pm – 5.10pm	Refresh Break
5.10pm – 5.25pm	ANSTO Education Materials and Post TPD Work
	Presenter: Janelle Townsend, Primary teacher and Education Officer at ANSTO An introduction to the sample lessons and units of work developed by ANSTO. Instructions will also be given on the post TPD work needed to receive 5 NESA accredited hours.
5.25pm – 5.30pm	Evaluation and wrap up
	Final questions and feedback

Speaker profiles:

	<p>Milly Formby, Migratory Shorebirds Program Officer (Birdlife Australia)</p> <p>Milly joined BirdLife Australia in 2019 and is based in Newcastle, NSW. She was awarded her Masters in Zoology from the University of Melbourne in 2014 and is an avid birdwatcher and bird bander. Milly also holds a Bachelor of Visual Arts and is the co-author and illustrator of the non-fiction children's book <i>Shorebirds Are Awesome</i> published by CSIRO Publishing as part of her project, <i>Wing Threads</i>.</p>
	<p>Julie Keating, Citizen Scientist</p> <p>Julie is a resident of Maianbar in southern Sydney, a non-breeding site for migratory shorebirds including Critically Endangered Eastern Curlews, Vulnerable Bar-Tailed Godwits, along with Endangered non-migratory Pied Oystercatchers, which use the local beaches as nesting sites. Located on Port Hacking, the mudflats of Deeban Spit provide a food source for the birds but they are also very popular with recreational boaters, dog walkers and fishers from southern Sydney, which means the birds are frequently disturbed and there is a clash of interests and needs. Julie has been very active in the community, engaging with the locals and Council on why protecting shorebirds is important. She has also been a presenter on the threat to shorebirds with the local Birdlife Australia Branch.</p>
	<p>Dr Debashish Mazumder, Senior Research Scientist, ANSTO</p> <p>Debashish leads the Aquatic Ecosystems and Food Provenance projects at ANSTO, where he uses isotopic and nuclear techniques to advance fisheries, aquaculture and wetlands research into the 21st century, providing contemporary solutions to a number of issues facing Australian industries and environments. His research offers insight into the structure, function and health of aquatic ecosystems. In 2019 he was part of a team that won the Eureka Award NSW Environment, Energy and Science (DPIE) prize for environmental research</p>
	<p>Dr Kate Brandis, Senior Research Scientist, Centre for Ecosystem Science, UNSW</p> <p>Kate is a freshwater ecologist and has worked in the wetlands of the Murray Darling Basin for the past 20 years studying waterbirds and water management to achieve the best possible outcomes for Australia's waterbirds. Her research informs government policy development and provides advice to state and federal governments for water management and delivery decisions. Kate has worked at UNSW for the past 15 years on a wide range of research topics including wetland mapping, tracking water flows, waterbird ecology, waterbird disease, tracking waterbird movements and nesting studies and she has collaborated with a wide range of people from universities, government agencies, CSIRO, ANSTO, IUCN and Taronga Zoo.</p>

ANSTO Shorebirds Team:

Stephanie McCready, Community and Primary Education Manager, has a background in environmental science and has worked in the ANSTO Education Team for seven years. Stephanie is responsible for developing and running programs to engage primary students and is the creator of the ANSTO Shorebirds Competition.

Kim Whitbread, Education Officer, has a background as a secondary teacher and has worked in the ANSTO Education Team for twelve years. Kim supports the delivery of many educational programs at ANSTO and is passionate about shorebird conservation.

Janelle Townsend, Education Officer, has a background as a primary teacher and administrator. A recent member of the ANSTO Education Team, Janelle uses her primary expertise to assist the development of new education programs and professional development sessions for primary teachers

Thank you for participating in this TPD.

Please contact us if you require further information or support: competition@ansto.gov.au