

A checklist of birds sighted from Sri Sivasubramaniam Nadar (SSN) College of Engineering, Chengalpet, Tamil Nadu

Bird diversity studies from educational institutions with wildlife-friendly habitats are valuable datasets, as they could highlight the peaceful co-existence of birds and humans. An invaluable insight to the historical work from a campus in this district is from MCC, where Dr. Gift Siromoney compiled his observations of birds and butterflies (Siromoney 1978). This work serves as a baseline for the bird diversity for the district where Sri Sivasubramaniam Nadar College of Engineering (SSN-CE) is located. Here I report the avifauna of SCE campus.

SSN-CE is located at SSN nagar, at Kalavakkam in the newly created district of Chengalpet in Tamil Nadu. The campus spans 250 acres, with a mixture of scrub, wooded country and maintained lawns. Some patches of grassland are also present in the western parts of campus. The campus also has a pond located near the Electrical & Electronics Department (EEE), which fills up during the winter months and attracts many species of birds such as sandpipers and quails. The expanse beyond the cricket stadium is one of the most important birding zones in campus, where more than 75% of the species recorded in campus have been sighted.

The cricket stadium is a great vantage point that was used to spot birds that visited the

large water tank adjacent to the western boundary of campus (not to be confused with the previously described pond).

Birding walks were opportunistically conducted for a period of more than three years (2017–2020) around the entire campus. These walks were carried out through various periods of the day to ensure better temporal coverage. Additionally, formal, day-long, Campus Bird Counts were done with student-participation, to educate students on the bird life of the campus. These exercises, along with other monitoring surveys such as Endemic Bird Day (Bird Count India 2020) and World Wetland Day, helped boost student engagement in the field. Though opportunistic birding was the prime mode of data collection, certain hotspots were identified in campus and a more concentrated approach was focus on these areas when compared to other spots in campus. These spots include the cricket stadium, football field, open spaces in front of the EEE and chemical engineering departments, the regions behind the chemistry department and the clock tower. Apart from these spots, four transects were frequented during the counts. These include the pathways leading to the cricket stadium, the pathway beyond the cricket stadium, the road connecting the EEE and chemistry department and the road leading to the chemical engineering department. On average 15

individuals/100m, 20 individuals/100m, 3 individuals/100m, 5 individuals/100m were observed in each of these pathways respectively.

A total of 174 species of birds were recorded in the campus in the three years of survey. Of these, five peninsular India endemics, nine other species endemic to the Indian subcontinent were recorded from campus. Two species, Tawny Eagle *Aquila rapax* and Greater Spotted Eagle *Clanga clanga*, are listed vulnerable according to the IUCN (Birdlife International 2020a,b). The most frequently encountered species in campus include House Crow *Corvus splendens*, Large-billed Crow *Corvus macrorhynchos*, Common Myna *Acridotheres tristis*, Black Drongo *Dicrurus macrocercus*, Indian Pond Heron *Ardeola grayii*, Asian Palm Swift *Cypsiurus balasiensis*, White-throated Kingfisher *Halcyon smyrnensis*, Rufous Treepie *Dendrocitta vagabunda*, Plain Prinia *Prinia inornata*, and Red-vented Bulbul *Pycnonotus cafer*. Among migrants, Barn Swallows *Hirundo rustica* dominated the campus, with flocks of nearly 500 individuals recorded in campus. Other characteristic migrants seen on walks included wagtails, pipits, harriers, and warblers.

Table 1 provides a checklist of birds that were recorded during the study period. It includes the exact on-campus location in which the birds were recorded, to enable future researchers. The migratory status of the bird species was given based on the following criteria: Resident—found year-round; Winter

Migrant—found predominantly November through February; etc. The abundance status was assigned as follows: C—Common (>60%), O—Occasional (40–60%), R—Rare (20–40%), VR—Very Rare (<20%), where % describe the chance of seeing the species, calculated on basis of number of sightings with respect to the number of surveys done.

Selected species accounts:

Rain Quail *Coturnix coromandelica*

Two birds were heard calling and the call was recorded (Nagarajan 2018) on the 10 December 2018. A male was also seen on the 14 February 2020 beyond the cricket stadium. The distinct black breast and other features noted in the field. There are many recent observations of this species from neighbouring Kanchipuram District (eBird India 2020c).

Black Baza *Aviceda leuphotes*

On the 26 October 2017, a single individual was seen near the clock tower. It was following the thermals and flying northwards. Another bird was seen flying close to it, but was its identity was not confirmed due to the distance. This is the only sighting of this bird from the Chennai surroundings in the recent past. The bird had been recorded more often in the years preceding 1990 and is a stray visitor to Chennai (Kannan 1985; Santharam 2009).

Pied Harrier *Circus melanoleucos*

Two birds were seen, the first was a male by the lake near the cricket stadium on the 2 March 2018. The second was seen at the

Table 1. Checklist of birds recorded from SSN College of Engineering from 2017–20.

Common Name	Scientific name	Best seen at	Migratory Status to district	Abundance in SSN-CE
Fulvous Whistling Duck	<i>Dendrocygna bicolor</i>	Water body at campus edge	Resident	O
Lesser Whistling Duck	<i>Dendrocygna javanica</i>	Flyover	Resident	R
Knob-billed Duck	<i>Sarkidiornis melanotos</i>	Water body at campus edge	Winter migrant	R
Cotton Pygmy Goose	<i>Nettapus coromandelianus</i>	Water body at campus edge	Resident	R
Garganey	<i>Spatula querquedula</i>	Flyover	Winter migrant	C
Northern Shoveler	<i>Spatula clypeata</i>	Flyover	Winter migrant	C
Indian Spot-billed Duck	<i>Anas poecilorhyncha</i>	Flyover	Resident	C
Northern Pintail	<i>Anas acuta</i>	Flyover	Winter migrant	C
Tufted Duck	<i>Aythya fuligula</i>	Flyover	Winter migrant	R
Indian Peafowl	<i>Pavo cristatus</i>	SSN Pond	Resident	C
Rain Quail	<i>Coturnix coromandelica</i>	Beyond Cricket Stadium	Winter migrant	VR
Jungle Bush Quail	<i>Perdicula asiatica</i>	SSN Pond	Resident	R
Grey Francolin	<i>Francolinus pondicerianus</i>	Football ground	Resident	C
Little Grebe	<i>Tachybaptus ruficollis</i>	SSN Pond, water body at campus edge	Resident	O
Rock Pigeon (Feral)	<i>Columba livia</i>	Throughout campus	Resident	C
Eurasian Collared Dove	<i>Streptopelia decaocto</i>	Beyond Cricket Stadium	Resident	O
Spotted Dove	<i>Streptopelia chinensis</i>	Throughout campus	Resident	C
Laughing Dove	<i>Streptopelia senegalensis</i>	Beyond Cricket Stadium	Resident	R
Greater Coucal	<i>Centropus sinensis</i>	Outside Chemical Engineering department	Resident	C
Blue-faced Malkoha	<i>Phaenicophaeus viridirostris</i>	Beyond Cricket Stadium	Resident	O
Pied Cuckoo	<i>Clamator jacobinus</i>	Cricket Stadium	Resident	C
Asian Koel	<i>Eudynamis scolopaceus</i>	All Ficus trees in campus	Resident	C
Grey-bellied Cuckoo	<i>Cacomantis passerinus</i>	Cricket Stadium	Resident	C
Common Hawk Cuckoo	<i>Hierococcyx varius</i>	Management area	Resident	C
Little Swift	<i>Apus affinis</i>	Flyover	Resident	C
Asian Palm Swift	<i>Cypsiurus balasiensis</i>	Flyover	Resident	C
Eurasian Moorhen	<i>Gallinula chloropus</i>	Water body at campus edge	Resident	C
Eurasian Coot	<i>Fulica atra</i>	Water body at campus edge	Resident	C
Grey-headed Swamphen	<i>Porphyrio poliocephalus</i>	Water body at campus edge	Resident	C

Common Name	Scientific name	Best seen at	Migratory Status to district	Abundance in SSN-CE
Watercock	<i>Gallicrex cinerea</i>	Water body at campus edge	Resident	C
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	Water body at campus edge	Resident	C
Baillon's Crake	<i>Zapornia pusilla</i>	Water body at campus edge	Winter migrant	O
Black-winged Stilt	<i>Himantopus himantopus</i>	Cricket stadium (After flooding)	Resident	R
Yellow-wattled Lapwing	<i>Vanellus malabaricus</i>	Cricket stadium	Resident	O
Red-wattled Lapwing	<i>Vanellus indicus</i>	Cricket stadium	Resident	C
Little ringed Plover	<i>Charadrius dubius</i>	Cricket stadium (After flooding)	Resident	R
Pheasant-tailed Jacana	<i>Hydrophasianus chirurgus</i>	Water body at campus edge	Resident	C
Whimbrel	<i>Numenius phaeopus</i>	Flyover	Winter migrant	R
Common Snipe	<i>Gallinago gallinago</i>	Football field	Winter migrant	C
Pin-tailed Snipe	<i>Gallinago stenura</i>	Cricket stadium (After flooding)	Winter migrant	R
Common Sandpiper	<i>Actitis hypoleucos</i>	SSN Pond	Winter migrant	C
Green Sandpiper	<i>Tringa ochropus</i>	SSN Pond	Winter migrant	O
Wood Sandpiper	<i>Tringa glareola</i>	SSN Pond	Winter migrant	O
Indian Courser	<i>Cursorius coromandelicus</i>	Flyover	Resident	R
Brown-headed Gull	<i>Chroicocephalus brunnicephalus</i>	Flyover	Winter migrant	R
Little Tern	<i>Sternula albifrons</i>	Flyover	Winter migrant	R
Gull-billed Tern	<i>Gelochelidon nilotica</i>	Flyover	Winter migrant	O
Caspian Tern	<i>Hydroprogne caspia</i>	Flyover	Winter migrant	R
Whiskered Tern	<i>Chlidonias hybrida</i>	Water body at campus edge	Winter migrant	O
Asian Openbill	<i>Anastomus oscitans</i>	Water body at campus edge	Resident	C
Woolly-necked Stork	<i>Ciconia episcopus</i>	Flyover	Resident	R
Painted Stork	<i>Mycteria leucocephala</i>	Water body at campus edge	Resident	C
Oriental Darter	<i>Anhinga melanogaster</i>	Water body at campus edge	Resident	C
Little Cormorant	<i>Microcarbo niger</i>	Water body at campus edge	Resident	C
Great Cormorant	<i>Phalacrocorax carbo</i>	Water body at campus edge	Resident	C
Indian Cormorant	<i>Phalacrocorax fuscicollis</i>	Water body at campus edge	Resident	C
Spot-billed Pelican	<i>Pelecanus philippensis</i>	Flyover	Resident	C
Yellow Bittern	<i>Ixobrychus sinensis</i>	Water body at campus edge	Resident	C
Chestnut Bittern	<i>Ixobrychus cinnamomeus</i>	Water body at campus edge	Resident	R

Common Name	Scientific name	Best seen at	Migratory Status to district	Abundance in SSN-CE
Black Bittern	<i>Ixobrychus flavicollis</i>	Water body at campus edge	Resident	O
Grey Heron	<i>Ardea cinerea</i>	Water body at campus edge	Resident	C
Purple Heron	<i>Ardea purpurea</i>	Water body at campus edge	Resident	C
Great Egret	<i>Ardea alba</i>	Water body at campus edge	Resident	O
Intermediate Egret	<i>Ardea intermedia</i>	Water body at campus edge	Resident	C
Little egret	<i>Egretta garzetta</i>	Water body at campus edge	Resident	C
Cattle Egret	<i>Bubulcus ibis</i>	Water body at campus edge	Resident	C
Indian Pond Heron	<i>Ardeola grayii</i>	Water body at campus edge	Resident	C
Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	Flyover	Resident	C
Glossy Ibis	<i>Plegadis falcinellus</i>	Flyover	Resident	C
Black-headed Ibis	<i>Threskiornis melanocephalus</i>	Flyover	Resident	C
Osprey	<i>Pandion haliaetus</i>	Water body at campus edge	Winter migrant	C
Black-winged Kite	<i>Elanus caeruleus</i>	Football field	Resident	C
Oriental Honey Buzzard	<i>Pernis ptilorhynchus</i>	Flyover	Resident	C
Black Baza	<i>Aviceda leuphotes</i>	Flyover (Clock Tower)	Passage Migrant	VR
Short-toed Snake Eagle	<i>Circaetus gallicus</i>	Cricket Stadium	Resident	R
Greater-Spotted Eagle	<i>Clanga clanga</i>	Cricket Stadium	Winter migrant	R
Booted Eagle	<i>Hieraetus pennatus</i>	Cricket Stadium	Winter migrant	O
Tawny Eagle	<i>Aquila rapax</i>	Flyover (Clock Tower)	Winter migrant	VR
Bonelli's Eagle	<i>Aquila fasciata</i>	Flyover (Clock Tower)	Resident	R
White-eyed Buzzard	<i>Butastur teesa</i>	Flyover	Resident	C
Eurasian Marsh Harrier	<i>Circus aeruginosus</i>	Water body at campus edge	Winter migrant	C
Pallid Harrier	<i>Circus macrourus</i>	Water body at campus edge	Winter migrant	C
Pied Harrier	<i>Circus melanoleucos</i>	Water body at campus edge	Winter migrant	R
Montague's Harrier	<i>Circus pygargus</i>	Water body at campus edge	Winter migrant	O
Shikra	<i>Accipiter badius</i>	Throughout campus	Resident	C
Eurasian Sparrowhawk	<i>Accipiter nisus</i>	Eastern edge of campus	Winter migrant	VR
Black Kite	<i>Milvus migrans</i>	Flyover (Clock Tower)	Resident	O

Common Name	Scientific name	Best seen at	Migratory Status to district	Abundance in SSN-CE
Brahminy Kite	<i>Haliastur indus</i>	Flyover	Resident	R
Spotted Owlet	<i>Athene brama</i>	Lawn	Resident	O
Eurasian Hoopoe	<i>Upupa epops</i>	Cricket Stadium	Resident	O
Common Kingfisher	<i>Alcedo atthis</i>	Water body at campus edge	Resident	C
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	Throughout Campus	Resident	C
Pied Kingfisher	<i>Ceryle rudis</i>	Water body at campus edge	Resident	C
Green Bee-eater	<i>Merops orientalis</i>	Cricket Stadium	Resident	C
Blue-tailed Bee-eater	<i>Merops philippinus</i>	Cricket Stadium	Resident	C
Indian Roller	<i>Coracias benghalensis</i>	Cricket Stadium	Resident	C
Coppersmith Barbet	<i>Psilopogon haemacephalus</i>	All Ficus trees in campus	Resident	C
Black-rumped Flameback	<i>Dinopium benghalense</i>	Throughout Campus	Resident	C
Eurasian Kestrel	<i>Falco tinnunculus</i>	Flyover	Winter migrant	O
Red-necked Falcon	<i>Falco chicquera</i>	Flyover	Resident	R
Peregrine falcon (Calidus form)	<i>Falco peregrinus</i>	Flyover	Winter migrant	R
Rose-ringed Parakeet	<i>Psittacula krameri</i>	Throughout Campus	Resident	C
Plum-headed Parakeet	<i>Psittacula cyanocephala</i>	Flyover	Resident	R
Indian Pitta	<i>Pitta brachyura</i>	Beyond Cricket Stadium	Winter migrant	R
Black-headed Cuckooshrike	<i>Lalage melanoptera</i>	Beyond Cricket Stadium	Resident	C
Indian Golden Oriole	<i>Oriolus kundoo</i>	Management area	Resident	C
Black-naped Oriole	<i>Oriolus chinensis</i>	Ficus Tree near Chemistry Department	Winter migrant	R
Ashy Woodswallow	<i>Artamus fuscus</i>	Flyover	Resident	C
Common Woodshrike	<i>Tephrodornis pondicerianus</i>	Beyond Cricket Stadium	Resident	C
Common Iora	<i>Aegithina tiphia</i>	Beyond Cricket Stadium	Resident	C
Black Drongo	<i>Dicrurus macrocercus</i>	Throughout Campus	Resident	C
Ashy Drongo	<i>Dicrurus leucophaeus</i>	Near Boy's Hostel	Winter migrant	R
Indian Paradise Flycatcher	<i>Terpsiphone paradisi</i>	Near Boy's Hostel	Winter migrant	O
Brown Shrike	<i>Lanius cristatus</i>	SSN Pond	Winter migrant	C
Bay-backed Shrike	<i>Lanius vittatus</i>	Beyond Cricket Stadium	Resident	O
Long-tailed Shrike	<i>Lanius schach</i>	Beyond Cricket Stadium	Resident	R
Rufous Treepie	<i>Dendrocitta vagabunda</i>	Throughout Campus	Resident	C
House Crow	<i>Corvus splendens</i>	Throughout Campus	Resident	C
Large-billed Crow	<i>Corvus macrorhynchos</i>	Throughout Campus	Resident	C

Common Name	Scientific name	Best seen at	Migratory Status to district	Abundance in SSN-CE
Ashy-crown Sparrow-Lark	<i>Eremopterix griseus</i>	Football field	Resident	R
Jerdon's Bushlark	<i>Mirafra affinis</i>	Football field	Resident	C
Oriental Skylark	<i>Alauda gulgula</i>	Football field	Resident	C
Common Tailorbird	<i>Orthotomus sutorius</i>	Opposite the chemical Department	Resident	C
Grey-breasted Prinia	<i>Prinia hodgsonii</i>	Beyond Cricket Stadium	Resident	O
Jungle Prinia	<i>Prinia sylvatica</i>	Beyond Cricket Stadium	Resident	C
Ashy Prinia	<i>Prinia socialis</i>	Beyond Cricket Stadium	Resident	C
Plain Prinia	<i>Prinia inornata</i>	Beyond Cricket Stadium	Resident	C
Zitting Cisticola	<i>Cisticola juncidis</i>	Beyond Cricket Stadium	Resident	O
Booted Warbler	<i>Iduna caligata</i>	Thickets near Chemistry department	Winter migrant	R
Sykes's Warbler	<i>Iduna rama</i>	Thickets near Chemistry department	Winter migrant	VR
Paddyfield Warbler	<i>Acrocephalus agricola</i>	Thickets near Chemistry department	Winter migrant	VR
Blyth's Reed Warbler	<i>Acrocephalus dumetorum</i>	Thickets near Chemistry department	Winter migrant	C
Clamorous Reed Warbler	<i>Acrocephalus stentoreus</i>	Water body at campus edge	Resident	O
Barn Swallow	<i>Hirundo rustica</i>	Electric cables on boundary	Winter migrant	C
Red-rumped Swallow	<i>Cecropis daurica</i>	Electric cables on boundary	Resident	C
Red-vented Bulbul	<i>Pycnonotus cafer</i>	Football field	Resident	C
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	Beyond Cricket Stadium	Resident	C
White-browed Bulbul	<i>Pycnonotus luteolus</i>	Beyond Cricket Stadium	Resident	C
Greenish Warbler	<i>Phylloscopus trochiloides</i>	First Year Block	Winter migrant	R
Lesser Whitethroat (Hume's)	<i>Sylvia curruca</i>	First Year Block	Winter Migrant	R
Tawny-bellied Babbler	<i>Dumetia hyperythra</i>	Beyond Cricket Stadium	Resident	R
Yellow-billed Babbler	<i>Turdoides affinis</i>	Throughout Campus	Resident	C
Rosy Starling	<i>Pastor roseus</i>	Beyond Cricket Stadium	Winter migrant	O
Asian Pied Starling	<i>Gracupica contra</i>	Flyover	Resident	VR
Brahminy Starling	<i>Sturnia pagodarum</i>	Beyond Cricket Stadium	Resident	C

Common Name	Scientific name	Best seen at	Migratory Status to district	Abundance in SSN-CE
Common Myna	<i>Acridotheres tristis</i>	Throughout Campus	Resident	C
Orange-headed Thrush	<i>Geokichla citrina</i>	First Year Block	Winter migrant	R
Asian Brown Flycatcher	<i>Muscicapa dauurica</i>	First Year Block	Winter migrant	R
Indian Robin	<i>Copsychus fulicatus</i>	Cricket Stadium	Resident	C
Oriental Magpie Robin	<i>Copsychus saularis</i>	Throughout Campus	Resident	C
Siberian Stonechat	<i>Saxicola maurus</i>	Beyond Cricket Stadium	Winter migrant	R
Pied Bushchat	<i>Saxicola caprata</i>	Football field	Resident	C
Pale-billed Flowerpecker	<i>Dicaeum erythrorhynchos</i>	Throughout Campus	Resident	C
Purple-rumped Sunbird	<i>Leptocoma zeylonica</i>	Throughout Campus	Resident	C
Purple Sunbird	<i>Cinnyris asiaticus</i>	Throughout Campus	Resident	C
Loten's Sunbird	<i>Cinnyris lotenius</i>	Throughout Campus	Resident	C
Streaked Weaver	<i>Ploceus manyar</i>	Chemical Engineering Block	Resident	R
Baya Weaver	<i>Ploceus philippinus</i>	Beyond Cricket Stadium	Resident	O
Red Avadavat	<i>Amandava amandava</i>	Open space in front of EEE block	Resident	O
Indian Silverbill	<i>Euodice malabarica</i>	Beyond Cricket Stadium	Resident	C
White-rumped Munia	<i>Lonchura striata</i>	Beyond Cricket Stadium	Resident	O
Scaly-bellied Munia	<i>Lonchura punctulata</i>	Chemical Engineering Block	Resident	C
Tri-coloured Munia	<i>Lonchura malacca</i>	Water body at campus edge	Resident	C
House Sparrow	<i>Passer domesticus</i>	Main Gate	Resident	R
Yellow-throated Sparrow	<i>Gymnoris xanthocollis</i>	Football Field	Resident	O
Western Yellow Wagtail	<i>Motacilla flava</i>	Cricket Stadium	Winter migrant	O
Citrine Wagtail	<i>Motacilla citreola</i>	Cricket Stadium	Winter migrant	O
White-browed Wagtail	<i>Motacilla maderaspatensis</i>	Cricket Stadium	Resident	C
White Wagtail	<i>Motacilla alba</i>	Cricket Stadium	Winter migrant	R
Richard's Pipit	<i>Anthus richardi</i>	Cricket Stadium	Winter migrant	C
Paddyfield Pipit	<i>Anthus rufulus</i>	Cricket Stadium	Winter migrant	C
Blyth's Pipit	<i>Anthus godlewskii</i>	Cricket Stadium	Winter migrant	O
Tawny Pipit	<i>Anthus campestris</i>	Cricket Stadium	Winter migrant	R
Tree Pipit	<i>Anthus trivialis</i>	Cricket Stadium	Winter migrant	VR

same place on the same date in 2019, but was a female bird. On both occasions the bird seemed to be hunting, flushing out various species of ducks with its presence.

The Pied Harrier is infrequently seen in winter from the surroundings of Chennai (eBird India 2020b).

Tawny Eagle *Aquila rapax*

One bird was seen by the Clock Tower, circling over campus in the thermals on the 20 October 2017. It was a very large bird and easily told apart from other similar species by its very pale appearance. The bird is a scarce visitor to Chennai, and has been recorded from Poondi Lake (Kesavabharathi 2010) and historically from Guindy National Park (Kannan & Santharam 1982).

Asian Pied Starling *Gracupica contra*

On the 8 February 2018, this bird was seen flying towards the west, being chased by a few Common Mynas *Acridotheres tristis*. The bird had a characteristic black and white appearance. Historically this is not a bird known from Chennai and its surroundings. However, it has been regularly reported around Chennai (eBird India 2020a) and trends in eBird (2020a) indicate that the bird may be extending its range southwards and move as far south as Cuddalore (Vigneshwaran 2020). However, there are to be no published articles of its presence around Chennai.

Threats and conservation: As is the case with any expanding educational institution, future construction projects are a foreseeable threat to the biodiversity of the campus. However, the management's appreciation of biodiversity and its value is commendable and bodes well for the local wildlife. Its policy of reforesting and maintain a campus with native species has ensured that the pressure on the biodiversity of campus is minimised. Further, the areas beyond the cricket stadium have

virtually been untouched, allowing for wildlife to thrive. Other policies that have been initiated have encouraged birdlife to exist inside a bustling campus. For example, the restriction on walking over lawn spaces has now afforded ample and undisturbed foraging habitat for Cattle Egrets *Bubulcus ibis*, Indian Pond Herons *Ardeola grayii*, Indian Roller *Coracias benghalensis*, Black Drongo *Dicrurus macrocercus* and other species of birds. This continued approach to enable human-wildlife coexistence makes the campus a model for other institutions to follow.

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