

# GAJAH

NUMBER 48  
2018

Journal of the Asian Elephant Specialist Group



# GAJAH

## Journal of the Asian Elephant Specialist Group Number 48 (2018)

The journal is intended as a medium of communication on issues that concern the management and conservation of Asian elephants both in the wild and in captivity. It is a means by which everyone concerned with the Asian elephant (*Elephas maximus*), whether members of the Asian Elephant Specialist Group or not, can communicate their research results, experiences, ideas and perceptions freely, so that the conservation of Asian elephants can benefit. All articles published in *Gajah* reflect the individual views of the authors and not necessarily that of the editorial board or the Asian Elephant Specialist Group.

### Editor

#### Dr. Jennifer Pastorini

Centre for Conservation and Research  
26/7 C2 Road, Kodigahawewa  
Julpallama, Tissamaharama  
Sri Lanka  
e-mail: jenny@aim.uzh.ch

### Editorial Board

#### Dr. Ahimsa Campos-Arceiz

School of Geography  
University of Nottingham Malaysia  
Jalan Broga, 43500 Semenyih, Kajang, Selangor  
Malaysia  
e-mail: ahimsa@camposarceiz.com

#### Heidi Riddle

Riddles Elephant & Wildlife Sanctuary  
P.O. Box 715  
Greenbrier, Arkansas 72058  
USA  
e-mail: gajah@windstream.net

#### Dr. Varun R. Goswami

Wildlife Conservation Society  
551, 7th Main Road  
Rajiv Gandhi Nagar, 2nd Phase, Kodigehall  
Bengaluru - 560 097  
India  
e-mail: varunr.goswami@gmail.com

#### Dr. T. N. C. Vidya

Evolutionary and Organismal Biology Unit  
Jawaharlal Nehru Centre for  
Advanced Scientific Research  
Bengaluru - 560 064  
India  
e-mail: tncvidya@jncasr.ac.in

#### Dr. Prithviraj Fernando

Centre for Conservation and Research  
26/7 C2 Road, Kodigahawewa  
Julpallama, Tissamaharama  
Sri Lanka  
e-mail: pruthu62@gmail.com

# GAJAH

Journal of the Asian Elephant Specialist Group  
Number 48 (2018)

This publication was proudly funded by  
Wildlife Reserves Singapore



### **Editorial Note**

*Gajah* will be published as both a hard copy and an on-line version accessible from the AsESG web site ([www.asesg.org/gajah.htm](http://www.asesg.org/gajah.htm)). If you would like to be informed when a new issue comes out, please provide your e-mail address. If you need to have a hardcopy, please send a request with your name and postal address by e-mail to <[jenny@aim.uzh.ch](mailto:jenny@aim.uzh.ch)>.

### **Copyright Notice**

*Gajah* is an open access journal distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

*<http://creativecommons.org/licenses/by/4.0/>*

### **Cover**

Elephant Awang Sg Kedah, a local resident, walking along the Gerik-Jeli Highway also known as East-West Highway in Gerik, Perak (Malaysia)

Photo by Alicia Solana Mena

(See article on page 4)

Layout and formatting by Dr. Jennifer Pastorini

Printed at P & G Printers, Colombo 10, Sri Lanka

## Instructions for Contributors

*Gajah* welcomes articles related to Asian elephants, including their conservation, management, and research, and those of general interest such as cultural or religious associations. Manuscripts may present research findings, opinions, commentaries, anecdotal accounts, reviews etc. but should not be mainly promotional.

All articles will be evaluated by the editorial board of *Gajah*. Peer-reviewed articles will be sent out for review. Word limits for submitted articles are for the entire article (title, authors, abstract, text, tables, figure legends, acknowledgements and references).

**Correspondence:** Readers are encouraged to submit comments, opinions and criticisms of articles published in *Gajah*. Such correspondence should be a maximum of 500 words, and will be edited and published at the discretion of the editorial board.

**News and Briefs:** Manuscripts on anecdotal accounts and commentaries on any aspect of Asian elephants, information about organizations, and workshop or symposium reports with a maximum of 1000 words are accepted for the “**News and Briefs**” section.

**Research papers:** Manuscripts reporting original research with a maximum of 5000 words are accepted for the “**Research Article**” section. They should also include an abstract (100 words max.). A second abstract in the local language of the authors is optional (100 words max.). *Gajah* also publishes “**Peer-Reviewed Research Articles**”. Peer-reviewed papers will carry a notation to that effect. Authors are requested to specify that they are submitting their paper to the peer-reviewed section. Shorter manuscripts (2000 words max.) will be published as a “**Short Communication**” (no abstract).

**Tables and figures** should be kept to a minimum. Legends should be typed separately (not incorporated into the figure). Figures and tables should be numbered consecutively and referred to in the text as (Fig. 2) and (Table 4). The lettering on figures must be large enough to be legible after reduction to final print size. Include tables and line drawings in the MS Word document you submit. In addition, all figures must be provided as separate files in JPEG or TIFF format.

**References** should be indicated in the text by the surnames(s) of the author(s) with the year of publication as in this example: (Olivier 1978 ; Baskaran & Desai 1996; Rajapaksha *et al.* 2004) Avoid if possible, citing references which are hard to access (e.g. reports, unpublished theses). Format citations in the ‘References’ section as in the following examples, writing out journal titles in full.

Baskaran N & Desai AA (1996) Ranging behavior of the Asian elephant (*Elephas maximus*) in the Nilgiri biosphere reserve, South India. *Gajah* **15**: 41-57.

Olivier RCD (1978) *On the Ecology of the Asian Elephant*. Ph.D. thesis, University of Cambridge, Cambridge, UK.

Rajapaksha RC, Mendis GUSP & Wijesinghe CG (2004) Management of Pinnawela elephants in musth period. In: *Endangered Elephants, Past Present and Future*. Jayewardene J (ed) Biodiversity & Elephant Conservation Trust, Colombo, Sri Lanka. pp 182-183.

Sukumar R (1989) *The Asian Elephant: Ecology and Management*. Cambridge University Press, Cambridge, UK.

Manuscripts should be submitted by e-mail to the editor <jenny@aim.uzh.ch>. Submission of an article to *Gajah* is taken to indicate that ethical standards of scientific publication have been followed, including obtaining concurrence of all co-authors. Authors are encouraged to read an article such as: Benos *et al.* (2005) Ethics and scientific publication. *Advances in Physiology Education* **29**: 59-74.

### Contents

Gajah 48 (2018)

Editorial	1
Notes from the Chair IUCN SSC Asian Elephant Specialist Group	2-3

### Research Article - Peer-Reviewed

The elephant who finally crossed the road – significant life events reflected in faecal hormone metabolites of a wild Asian elephant	4-11
<i>E. P. Wong, L. Yon, S. L. Walker, A. Solana Mena, J. Wadey, N. Othman, S. Saaban &amp; A. Campos-Arceiz</i>	

### Research Articles

Sociological dimensions of human-elephant conflict with trans-boundary herds in northern Bangladesh	12-19
<i>Anwar Palash, Muntasir Akash &amp; Md. Anwarul Islam</i>	

### Short Communications

The railway-line fence: A new passive elephant barrier at Bannerghatta National Park, Southern India	20-23
<i>A. Saklani, D. Kumar, A. Gayathri &amp; A. Krishnan</i>	
Human-elephant conflict in Patheria Hills Reserve Forest along the Indo-Bangladesh border in Northeast India	24-26
<i>Himangshu Dutta, Hilloljyoti Singha, Biman Kumar Dutta &amp; Panna Deb</i>	
Perceptions of human-elephant conflict around Abhaypur Reserve Forest in Northeast India	27-29
<i>Animekh Hazarika &amp; Himangshu Dutta</i>	
Unexpected resting behaviour in a geriatric zoo elephant	30-33
<i>Christian Schiffmann, Kevin Knibbs, Marcus Clauss, Jon Merrington &amp; Darren Beasley</i>	
Olfactory cognitive enrichment training for a male Asian elephant	34-37
<i>Clair Holland</i>	
Esophageal blockage in a captive Asian elephant	38-39
<i>Zaw Min Oo, Tin Tun Aung, Myo Min Aung, Nin Nada &amp; Myo Than</i>	

### News and Briefs

9th Meeting of the Asian Elephant Specialist Group	40-45
Regional Tiger, Asian Rhino and Elephant Veterinary Workshop in Chitwan, Nepal	46-47
Report on the Sixth Elephant Conservation Group Workshop	48-49
Recent Publications on Asian Elephants	50-69
News Briefs	70-78