

Publications

Biology Education for Social and Sustainable Development (ISBN: 978-94-6091-925-1) was published in 2012 by Sense Publishers, Rotterdam, Netherlands (<http://www.sensepublishers.com/>). Some papers presented at the **23rd Biennial Conference of the AABE** which was held in Singapore in October 2010 were compiled in this book by Dr. Mijung Kim and Dr. C. H. Diong. You can refer to the abstracts of these papers in the **sixth volume of the *Asian Journal of Biology Education*** (2012).

Biology Education and Research in a Changing Planet (2015) (ISBN 978-981-287-523-5) was published by Springer (<http://www.springer.com/in/book/9789812875235>). Some papers presented at the **25th Biennial Conference of the AABE** which was held in Malaysia in October 2014 were compiled in this book by Dr. Esther Gnanamalar Sarojini A Daniel. The abstracts of these papers were included in the **eighth volume of the *Asian Journal of Biology Education*** (2015).

From the Editor-in-Chief

The COVID19 pandemic, which started in early 2020, still continues in 2021. It forces us to lead a restricted daily life. AABE activities are also affected by the pandemic; particularly, its biennial conference has to be postponed. The 28th Biennial Conference of the AABE (AABE28) was planned to be held in Tianjin, China, in October 2020, but we have not been able to hold it even in this year, 2021.

Under such severe circumstances, I am very pleased we can publish the thirteenth volume of the *Asian Journal of Biology Education* (AJBE) in this year. In this volume, there are two practical reports, one practical note, and one report on biological resources, though it cannot include the AABE28 conference report.

During last two years, the manuscripts contributed to AJBE have been peer-reviewed by the following persons as well as the Editorial Board members: Professor Nobuaki Asakura (Kanagawa University, Japan), Mrs. Teiko Nakamichi (Tokyo Institute of Biology Education, Japan), Dr. Danny Ng (The Chinese University of Hong Kong, China), and Dr. Takayuki Sato (Hirosaki University, Japan). I deeply appreciate their efforts to review the manuscripts critically.

The next volume of the AJBE will include a special issue related to education on the COVID19 pandemic. The expected topics are education on infectious diseases, microbes/viruses, immunology, etc. Everyone can contribute their research papers and/or practical reports on these topics to AJBE. General topics on biology education and environmental education are also welcomed. So, I would like to ask the AJBE readers to prepare their manuscripts referring to the "Instructions to Contributors" and send them to me.

Dr. Nobuyasu Katayama (katayama@u-gakugei.ac.jp)

Appendix

Symbols and Abbreviations for AJBE

TERM / UNIT OF MEASUREMENT	SYMBOL / ABBREVIATION
altitude	alt.
ampere	A
ångström (0.1 μm)	Å
calorie	cal
candela	cd
centimeter	cm
<i>circa</i> (Latin: approximately)	<i>ca.</i> or <i>ca</i>
cubic centimeter	cm^3
cubic meter	m^3
cubic millimeter	mm^3
day	d
degree Celsius	$^{\circ}\text{C}$
degrees of freedom	df or <i>v</i>
<i>et alia</i> (Latin: and others)	<i>et al.</i>
<i>et cetera</i> (Latin: and others)	<i>etc.</i>
<i>exempli gratia</i> (Latin: for example)	<i>e.g.</i>
figure, figures	Fig., Figs.
gram	g
greater (more) than ...	>
hectare	ha
hertz (frequency)	Hz
hour	h
<i>id est</i> (Latin: that is)	<i>i.e.</i>
joule	J
Kelvin	K
kilo-	k
kilocalorie	kcal
kilogram	kg
kilometer	km
latitude	lat.
less than ...	<
liter	l or L
lumen	lm
lux	lx

maximum	max.
meter	m
micro-	μ
microgram	μg
microliter	μl or μL
micrometer	μm
milli-	m
milligram	mg
milliliter	ml or mL
millimeter	mm
minimum	min.
minute (time)	min
molar (concentration)	M, mol L ⁻¹ or mol/L
mole	mol
month	mo
nano-	n
nanometer	nm
not (statistically) significant	NS or ns
number	No.
number (sample size) =	<i>n</i> =
parts per million	ppm
percent	%
plus or minus	\pm
probability	<i>p</i>
revolutions per minute	rpm
second (time)	s
species (singular / plural)	sp. / spp.
square centimeter	cm^2
square meter	m^2
square millimeter	mm^2
standard deviation	SD
versus	vs. or v.
volume	vol.
volt	V
watt	W
week	wk
weight	wt
year	y