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EDITORIAL PREFACE

Welcome to the Volume 7 of the *Jurnal Pemikir Pendidikan* (Journal of Educational Thinkers, abbreviated as EduThinkers), one of the online open access journals published by Universiti Malaysia Sabah (UMS), Sabah, Malaysia. EduThinkers is a peer-reviewed journal devoted to the publication of original papers and serves as a forum for practical approaches to improving quality in issues pertaining to education and its related fields. Areas relevant to the scope of the journal include: Science Education, Mathematics Education, Teaching English as Second Language, History Education, Geography Education, Economics Education, Educational Management, Educational Psychology, Educational Sociology, Educational Philosophy, Educational Technology, Language Instruction, Curriculum and Instruction, Physical and Health Education, and its related fields.

For the 7th volume of the EduThinkers, we have collected articles reporting on the results of a range of studies carried out by educational researchers from institutions of education throughout Malaysia. We hope you will enjoy reading these articles and that you will find the research findings reported in the articles relevant to your own research interests and educational endeavours. The editorial board members of EduThinkers 7 are indebted to the appointed internal and external reviewers who have contributed their valuable time and effort in reviewing and proofreading the articles that were submitted for publication in EduThinkers 7.

Associate Professor Dr. Lay Yoon Fah

Editor-in-Chief,

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About the Editor-in-Chief



Associate Professor Dr. Lay Yoon Fah is an Associate Professor of science education at the Faculty of Psychology and Education (FPE), Universiti Malaysia Sabah (UMS). He holds a Ph.D in Science Education, M.Sc. in Human Resource Development, and B.A.Ed.(Hons.) in Chemistry and Commerce. He has more than 26 years of working experience, ranging from a secondary school science/mathematics teacher, senior assistant of secondary schools, science/mathematics lecturer and head of department of educational research and development of a teacher training college/institute, a university senior lecturer, and subsequently an associate professor at the FPE, UMS. Currently, he is also a Research Fellow of the Unit for Rural Education Research (URER), FPE, UMS.

He has a wide range of research interests in the field of science education. His primary research interests are in the area of scientific skills, logical thinking abilities, attitude toward science, environmental education, professional development of science teachers, and international studies e.g., TIMSS and PISA. He is active in carrying out research in the field of science education and a frequent paper presenter in conferences and seminars at international and national levels.

He is a prolific book writer. His books on quantitative research methodology and statistical data analysis received overwhelming and encouraging response from undergraduate and postgraduate students of public and private institutions of higher education in Malaysia. He was also frequently being invited as a guest speaker for quantitative research methodology and statistical analysis courses by schools, polytechnics, matriculation colleges, and other government departments/agencies in Malaysia and abroad. He is currently the Editor-in-Chief of *Jurnal Pemikir Pendidikan* (Journal of Educational Thinkers) of FPE, UMS; the associate editor of *Asian Education Action Research Journal* (AEARJ) of Sultan Idris Education University (UPSI), and the editorial board member of *Atikan Jurnal Kajian Pendidikan*, Indonesia. He is also a manuscript reviewer for renowned international journals namely *International Journal of Science and Mathematics Education* (IJSME), *International Journal of Science Education* (IJSE), *Pertanika Journal of Social Sciences and Humanities* (Pertanika, JSSH), *International Journal of Environmental and Science Education* (IJESE), *Research in Science and Technological Education* (RSTE), *Environmental Education Research* (EER), *The Asia-Pacific Education Researcher* (TAPER), *Asia Pacific Journal of Education* (APJE), *Journal of Turkish Science Education* (TUSED), and the *EURASIA Journal of Mathematics, Science, and Technology Education* (EJMSTE), among others.

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