

PLENARY SPEAKERS



Prof Chun-Yen CHANG is the Director of Science Education Center at the National Taiwan Normal University (NTNU), Taiwan and Research Chair Professor and Adjunct Professor of Graduate Institute of Science Education and the Department of Earth Sciences at the University. His major research interests include science education, computer-assisted learning and instruction, problem-solving models, science curriculum development, inquiry teaching, and pedagogical understandings and conceptual change instruction in the area of earth science education.



Prof Enshan LIU is the Director of Science Education Research Center at the College of Life Science, Beijing Normal University, deputy president of the China National Association of Biology Teacher, Chairman of the National Committee on High School Biology Olympiad, and Editor-in-Chief of *Biology Bulletin*. A respected leader in biology curriculum development and innovation, Prof Liu is a key person in the latest biology curriculum reform in China started in 1999. Several high profile Ministry of Education funded projects in developing new National Middle School Biology Curriculum Standard National High School Biology Curriculum Standard were completed under his leadership.



Dr Merle C. TAN is the Director of the National Institute for Science and Mathematics Education Development, University of the Philippines, Diliman where she has worked for the last 41 years. Currently, she is Co-Chair of the Technical Panel for Teacher Education and the Commission on Higher Education, and an academic adviser of the International Centre for Cooperation in Education, Graduate School of Hiroshima University, Japan. She is consultant in various projects in science and environmental science education in several countries, and Project leader and resource specialist to several school-based training, international assessment studies, science frameworks for basic and teacher education, science literacy, and impact studies of science education projects



Prof Paul P.S. TENG is Dean, Graduate Programs and Research at the National Institute of Education, Nanyang Technological University, Singapore and Vice-Chairman of the Board, International Service for the Acquisition of Agri-biotech Applications. He has held positions as Deputy Director-General (Research), WorldFish Center, Malaysia; Asia Vice-President for Public Affairs and Director of Science & Technology, respectively, Monsanto Company, among many other high level international appointments. He is recognized as an expert on agricultural biotechnology, bioscience entrepreneurship and integrated pest management and has published on biosafety risk assessment and risk communication.



Prof Robert L. WALLIS is Pro Vice-Chancellor (Research) at the University of Ballarat, Australia and Honorary Professor in Environmental Science at the University where he is concurrently the Business Manager (Research & Development). During his tenure as Head of the School of Ecology & Environment and Pro Vice-Chancellor (Rural and Regional) at Deakin University, he successfully introduced several innovative environmental science initiatives and programs. His research interests include environmental education and sustainability, vertebrate ecology and physiology, and wildlife management.



Prof Margaret WATERMAN, Head, Department of Biology at the Southeastern Missouri State University, USA and Associate Director of BioQUEST Curriculum Consortium, is internationally recognized for her work on Problem Based and Investigative Case Based Learning (ICBL) in the sciences. She works with science faculty on developing materials and approaches for using ICBL to integrate new content, approaches and skills in biology curriculum at colleges, medical schools and research universities, and has presented internationally on Investigative Case Based Learning and sustainability education. Her book *Biological Inquiry: A workbook of investigative cases, 2nd ed.* (2008) is used by undergraduates around the world.

Secretariat

All enquiries on conference related matters are to be addressed to:

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23rd Biennial Conference of the Asian Association for Biology Education

18-20 October 2010
National Institute of Education
Nanyang Technological University
Singapore

Theme

Biology Education for Social and Sustainable Development

Invited Plenary Speakers

Prof Chun-Yen CHANG
(National Taiwan Normal University, Taiwan)
Prof Enshan LIU
(Beijing Normal University, China)
Dr. Merle C. TAN
(University of Philippines, Diliman, Philippines)
Prof Paul P.S. TENG
(National Institute of Education, NTU, Singapore)
Prof Robert L. WALLIS
(University of Ballarat, Australia)
Prof Margaret WATERMAN
(Southeastern Missouri State University, USA)

AABE 2010 Conference Website
<http://www.nsse.nie.edu.sg/aabe2010/>

Jointly Organized by:



Asian Association for Biology Education (AABE)



National Institute of Education, NTU (NIE)



Singapore Institute of Biology (SIBiol)



Science Teachers Association Singapore (STAS)

Supported by:

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LEE FOUNDATION

THEME

Biology Education for Social and Sustainable Development

In an era of globalization and urbanization, we face many social, economic, and environmental challenges as well as the ethical problems surrounding advances in biotechnology and biomedicine. Considering how biological knowledge is intrinsically related to building a sustainable relationship between nature and human society, the roles of biology education need to be thoroughly rethought to respond to life in the twenty-first century. To promote responsible and responsive roles for researchers and practitioners in biology education, we suggest that the AABE 2010 Biennial Conference be a platform for Asian biologists and biology educators to: *identify* current and future challenges in society and the environment; *rethink* the roles and goals of biology education to meet these challenges, and to *discuss* possible frameworks and strategies for knowledge building and implementation.

Sub-themes:

1. Biology education curriculum and policy
2. Teacher learning and education (in-service and pre-service teachers)
3. Student learning in K-12 levels
4. Biology education at tertiary levels
5. Environmental and social issues in biology
6. Assessment and evaluation

Proposals for Workshops are to be sent to the Conference Secretary. The organizing committee will assist in the arrangements for rooms and other logistical requirements.

REGISTRATION FEES AND PAYMENT

The registration fee is SGD300 for ordinary participants, and SGD250 for graduate students. The registration fee includes the Conference Program and Book of Abstracts, Welcome Reception, Conference Dinner, Morning and Afternoon Tea Reception, and a two-year membership of the Asian Association for Biology Education.

Payment of fees (i) by telegraphic transfer (Beneficiary Bank - **OCBC Bank Singapore**; A/C No. **537-191-785001**; A/C Name: **AABE 2010 Conference**; Bank Swift Code - **OCBCSGSG**), or (ii) by bankdraft payable to **AABE 2010 Conference**, sent to:

Ms Rosalind Ong
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Natural Sciences & Science Education
National Institute of Education, 1 Nanyang Walk
Singapore 637616
Email: hweechoo.ong@nie.edu.sg
Tel: +65 67903976; Fax: +65 68969414

All local and overseas charges for telegraphic transfer and bankdraft are to be paid by Account Holder (the applicant).

Registration on 17 Oct 2010 from 1500h-1800h is at the RELC International Hotel and on 18 Oct 2010, 0800h-0830h, is at the conference venue. A conference bag, copy of Conference Program and Book of Abstracts, and other materials will be handed out to participants during registration.

23RD AABE CONFERENCE

Time	17 Oct 2010 (Sun)	18 Oct 2010 (Mon)	19 Oct 2010 (Tue)	20 Oct 2010 (Wed)	21 Oct 2010 (Thu)	
0800 – 0830	Arrival	Registration			Post Conference Tours (1) Sungei Buloh Wetland Reserve (2) Bukit Timah Forest Reserve	
0830 – 0900		Opening Ceremony Welcome Address: Dr C H Diong Convenor, Prof Sing Kong LEE Guest-of-Honour	Plenary Lecture 3 Actions & Opportunities: A North American Perspective on Biology Education for Social & Sustainable Development by Prof Margaret Waterman	Plenary Lecture 5 Biology Education in China 2000 – 2010: A Review & Assessment of Curricular Trends & Teacher Preparation Models for a Changing Society by Prof Enshan Liu		
0900 – 0930		Plenary Lecture 1 Linking Education to Socially- Relevant Bioentrepreneurship for Sustainable Development by Prof Paul P.S. Teng	Plenary Lecture 4 From gene to education-The ECNG research framework: Education, Cognitive psychology, Neuroscience, and Gene by Prof Chun-Yen Chang	Plenary Lecture 6 Biology Education in the Future by Prof Robert L Wallis		
0930 – 1000		Plenary Lecture 2 Promoting Public Understanding of Sustainable Development: Opportunities for Science Education by Dr Merle C Tan	Tea Reception	Tea Reception		
1000 – 1030						
1030 – 1100		Photo Session Tea Reception		Oral Session 4		
1100 – 1130		Oral Session 1	Oral Session 3	Poster session		
1130 – 1200						
1200 – 1230						
1230 – 1300			Lunch	Lunch		
1300 – 1330						
1330 – 1400						
1400 – 1430						
1430 – 1500		Oral Session 2	Workshop (Problem Based Learning in Biology) by Prof Margaret Waterman	Departure		
1500 – 1530	Registration RELC International Hotel	Tea Reception	Mid-Conference Tours • Visits to Schools • Field Trip to Pulau Semakau • Singapore Science Centre			
1530 – 1600						
1600 – 1630		Country Reports	Tea Reception		Special Session (AABE Constitution) Closing Ceremony	
1630 – 1700						
1700 – 1730						
1730 – 1800						
1800 – 1830						
1830 – 1900		Welcome Gathering	Night Safari		Business Meeting of the AABE Executive Committee	Conference Dinner
1900 – 1930						
1930 – 2000						
2000 – 2030						
2030 – 2100						
2100 – 2130						

Please visit the Conference website <http://www.nsse.nie.edu.sg/aabe2010/> for information on on-line registration, abstract submission, hotel accommodation and other details.

ABSTRACT SUBMISSION

The abstract must have a title, name(s) of author(s) and address, email address of the presenting author, and the text describing the abstract in not more than 250 words. Specify the type of presentation you wish to make, prefer oral or prefer poster. Please note that abstracts will not be considered until the author has registered and payment has been received. Oral presentations will be allotted 15 minutes, including Q&A. Authors will receive written confirmation by email regarding acceptance of abstract and scheduling of their presentations.

IMPORTANT DEADLINES

Registration, payment	Open
Written proposal for Workshop	15 Mar 2010
Abstract submission (Oral, Poster)	15 Jun 2010
Notice of acceptance of Abstract (Oral, Poster)	01 Jul 2010
Last day of Registration for Conference	01 Sep 2010
On-line Submission of full paper	01 Sep 2010

TOURS

Mid-Conference Tours: Night Safari, Visit to Schools, Visit to Singapore Science Centre, Field Trip to Pulau Semakau

Post-Conference Tours: Bukit Timah Rain Forest, Sungei Buloh Wetland Reserve

Executive Committee

Dr Cheong Hoong DIONG (Singapore) (Executive Director)
Dr Lucille GREGARIO (Philippines) (Secretary)
Dr Churchai CHEOWTIRAKUL (Thailand)
Prof Nobuyasu KATAYAMA (Japan)
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Dr Merle C TAN (Philippines)
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Dr Peter Peng Foo LEE (Hon Treasurer)
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Dr Yew Jin LEE
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Registration & Payment Form

(you may also register on-line at <http://www.nsse.nie.edu.sg/aabe2010/>)

23rd Biennial Conference of the Asian Association for Biology Education 18-20 Oct 2010, Singapore

- (1) Personal Particulars
Full Name (surname in capital letters): _____
Salutation/Title: (Please circle) Prof, Dr, Mr, Mrs, Ms _____
Current Position, Appointment: _____
Affiliation/Institution: _____
Corresponding (Postal) Address: _____
Country: _____
Email address: _____
Telephone no.: _____
Fax no.: _____
- (2) Registration (please tick)
 I wish to register as a ordinary participant (SGD300)
 I wish to register as a student participant (SGD250)
 I wish to register one accompanying person (SGD150)
- (3) Abstract Submission (maximum of 1 oral and 1 poster per presenting author)
 I prefer oral presentation
 I prefer poster presentation
 I have submitted my abstract on-line / via email
 I enclose a copy of my abstract
- (4) Mid-conference tours (please tick)
 Visit to Schools
 Visit to Singapore Science Centre
 Field trip to Pulau Semakau (SGD70)
 Night Safari at Singapore Zoo
(please tick any **one** tour only)
- Post-conference tours (please tick **one** tour only)
 Bukit Timah Rain Forest
 Sungei Buloh Wetland Reserve
- (5) Dietary requirements (please tick)
 No dietary requirements Vegetarian Halal food Others (please specify) _____
- (6) Payment of registration fees
 by telegraphic transfer
 by bankdraft _____ (Name of Bank & Bankdraft Number)
 by local cheque (for Singapore participants only)

Signature

Date

Please send this Registration Form (by email / fax / post) and Bankdraft (by post) to

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or

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- (7) An acknowledgement letter will be sent to you via email when we receive your registration form and payment.

AABE2010 Conference is jointly organized by the Asian Association for Biology Education, National Institute of Education, Singapore Institute of Biology, Science Teachers Association Singapore, and supported by Lee Foundation Singapore.