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 Enshang 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 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 Hitotsubashi 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 and 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 biosecurity 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 Enshang 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)

Jointly Organized by:
Asian Association for Biology Education (AABE)
National Institute of Education, NTU (NIE)
Science Teachers Association Singapore (STAS)

Supported by:
Asian Association for Biology Education (AABE)
Science Teachers Association Singapore (STAS)

AABE 2010 Conference Website
http://www.nse.nie.edu.sg/aabe2010/
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. 537-191-75501; A/C Name: AABE 2010 Conference; Bank Swift Code - OCBSSGSG), or (ii) by bankdraft payable to AABE 2010 Conference, sent to:
Ms Rosalind Ong
AABE 2010 Conference Secretary
Natural Sciences & Science Education
National Institute of Education, 1 Nanyang Walk
Singapore 637616
Email: hwheechoo.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 0800-0830h 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

<table>
<thead>
<tr>
<th>Time</th>
<th>17 Oct 2010 (Sun)</th>
<th>18 Oct 2010 (Mon)</th>
<th>19 Oct 2010 (Tue)</th>
<th>20 Oct 2010 (Wed)</th>
<th>21 Oct 2010 (Thu)</th>
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<tbody>
<tr>
<td>0800 – 0830</td>
<td>Registration</td>
<td>Opening Ceremony</td>
<td>Plenary Lecture 3</td>
<td>Post Conference Tours</td>
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<tr>
<td>0830 – 0900</td>
<td>Welcome Address</td>
<td>Adresses &amp; Opportunites A North American Perspective on Biology Education for Socially &amp; Sustainable Development</td>
<td>by Prof Margaret Waterman</td>
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<td>0900 – 0930</td>
<td>Plenary Lecture 1</td>
<td>Plenary Lecture 4</td>
<td>Plenary Lecture 5</td>
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<td>1000 – 1030</td>
<td>by Dr Merle C Tan</td>
<td>by Prof Robert L Wallis</td>
<td>by Prof Choon-Yee Chang</td>
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<td>1030 – 1100</td>
<td>Photo Session</td>
<td>Tea Reception</td>
<td>Tea Reception</td>
<td>(1) Sungei Buloh Wetland Reserve</td>
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<td>1100 – 1130</td>
<td>Tea Reception</td>
<td>Oral Session 1</td>
<td>Oral Session 3</td>
<td>(2) Bukit Timah Forest Reserve</td>
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<td>1130 – 1200</td>
<td>Oral Session 1</td>
<td>Oral Session 3</td>
<td>Poster session</td>
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<td>1200 – 1230</td>
<td>Oral Session 2</td>
<td>Mid-Conference Tours</td>
<td>Workshop (Problem Based Learning in Biology)</td>
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<td>1230 – 1300</td>
<td>Lunch</td>
<td>Vists to Schools Field Trip to Pulau Semakau</td>
<td>by Prof Margaret Waterman</td>
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<tr>
<td>1300 – 1330</td>
<td>Lunch</td>
<td>Singapore Science Centre</td>
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<td>1330 – 1400</td>
<td>Lunch</td>
<td>Country Reports</td>
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<td>Departure</td>
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<tr>
<td>1400 – 1430</td>
<td>Registration</td>
<td>Registration RELC International Hotel</td>
<td>Workshops (by)</td>
<td>Special Session (AABE Constitution)</td>
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<tr>
<td>1430 – 1500</td>
<td>RELC International Hotel</td>
<td>Country Reports</td>
<td>Mid-Conference Tours</td>
<td>Closing Ceremony</td>
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<td>1500 – 1530</td>
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<td>Night Safari</td>
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<td>1530 – 1600</td>
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<td>Business Meeting of the AABE Executive Committee</td>
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<td>1600 – 1700</td>
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<td>Conference Dinner</td>
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Please visit the Conference website http://www.rose.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.

Important deadlines
Registration, payment Open
Written proposal for Workshop 15 Mar 2010
Abstract submission 15 Jun 2010
Notice of acceptance of Abstract 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

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