Appendix F

APEC Project Completion Report

Please submit through your APEC Secretariat Program Director within 2 months of project completion. Reports should be 3-4 pages. Please append participants list.

SECTION A: Project profile

<table>
<thead>
<tr>
<th>Project number &amp; title:</th>
<th>HWG 01 2017A: APEC Conference on Severe Dengue Prevention and Strategies for Reducing Disease Burden</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project time period:</td>
<td>2017/10/31-2018/10/31 Date submitted: 2018/6/1</td>
</tr>
<tr>
<td>Committee / WG / Fora:</td>
<td>Health Working Group</td>
</tr>
<tr>
<td>Project Overseer Name / Organization / Economy:</td>
<td>Dr. Jih-Haw Chou, Director-General, Centers for Disease Control, Chinese Taipei</td>
</tr>
</tbody>
</table>

SECTION B: Project report and reflection

1. Project description: In 3-4 sentences, please describe the project and its main objectives.

Dengue is a major public health concern in the APEC region. More than 70% of the economies are at risk of dengue. This project was designed to provide APEC developing economies with a platform to share and discuss the latest information and technologies on dengue prevention and control, which will help improve the regional capacity to prepare, detect and respond to dengue outbreaks. The project was carried out in the form of international conference and successfully held in Tainan, Chinese Taipei on May 3-4, 2018. In total, 88 participants from 10 APEC economies including Indonesia, Korea, Malaysia, Mexico, Russia, Singapore, Chinese Taipei, Thailand, the United States and Viet Nam attended this conference.

2. Meeting objectives: Describe how the project met each of its proposed objectives. Please outline any challenges you may have encountered in delivering the activity.

There are three key objectives of the project and all of them were achieved by the end of the conference.

(1) “To share experiences and information with different economies and stakeholders to discuss the challenges of dengue control strategies and the current situation concerning the effect of global warming on vectors and dengue pandemics”- The conference included interactive sessions, poster presentation and a site visit to the Mosquito-Borne Diseases Control Research Center, which aimed to provide all participants with comprehensive information of dengue fever prevention and control. The conference was divided into three sessions, including “Early Diagnosis and Clinical Management”, “Dengue Vaccine” and “New Technology Development in Vector Surveillance and Control”. Invited moderators and speakers in each session shared the latest dengue prevention technologies and future prospects. We also left enough time for the panel discussion for participants to exchange information and ask questions, addressing some key interesting points.

(2) “To introduce the latest development in surveillance systems, environmental management and vector control, pilot studies of drugs and vaccine development for dengue treatment and prevention in order to enhance APEC developing economies’ capacity building in dengue prevention and clinical case management”-14 speakers from HWG and LSIF were invited to share the latest technology development in vector surveillance and control, the update of dengue vaccine development and case management for dengue. In addition, we set up a Virtual Reality (VR) experience zone at the conference venue to allow the participants to virtually experience immersive and interactive health education on dengue fever prevention. During the site visit to the Mosquito-Borne Diseases Control Research Center, the researchers and the partners from the academia-industry cooperation effort also demonstrated the use of the high-tech tools for dengue prevention and vector control.

(3) “To establish a communication channel that facilitates and promotes international exchange of information on dengue in order to foster an effective and long-term cooperation relationship” – An dengue expert network was established during the conference. The contact information of all the moderators, speakers, experts and participants were collected and shared with all participants. Participants can utilize this expert network for sustained sharing of information and consulting with one another even after they return to their economies, facilitating further communication among economies after the conference and the establishment of long-term partnership.
3. **Evaluation:** Describe the process undertaken to evaluate the project upon completion. (e.g. evaluation through participant surveys, peer reviews of outputs, assessments against indicators, statistics demonstrating use of outputs etc.). Provide analysis of results of evaluations conducted and where possible include information on impacts on gender. How has the project contributed to APEC’s capacity building goals, objectives and operational principles? *Evaluation data needs to be included as an appendix.*

During the preparation period of the conference, the PO organized group review meetings to have operators reporting on the project progress. The review meetings ensured all the substantive and logistic arrangements for the conference were on track.

At the end of the conference, the APEC Project Evaluation Survey was conducted for measuring the satisfaction of participants. We received 65 copies of the evaluation survey forms from participants (about 74% response rate). In addition, we also collected and analyzed the feedback and comments regarding the content of the conference. More than 97% of the participants either strongly agreed or agreed that the conference’s objectives were met. Positive feedback was received with regard to conference content and deliverables, as well as faculty’s domain expertise. Individual responses to the survey is listed below.

<table>
<thead>
<tr>
<th>The objectives of the training were clearly defined</th>
<th>Strongly Agree</th>
<th>Agree</th>
<th>Disagree</th>
</tr>
</thead>
<tbody>
<tr>
<td>The project achieved its intended objectives</td>
<td>56%</td>
<td>44%</td>
<td>0%</td>
</tr>
<tr>
<td>The agenda items and topics covered were relevant</td>
<td>58%</td>
<td>42%</td>
<td>0%</td>
</tr>
<tr>
<td>The content was well organized and easy to follow</td>
<td>70%</td>
<td>30%</td>
<td>0%</td>
</tr>
<tr>
<td>Gender issues were sufficiently addressed during implementation</td>
<td>32%</td>
<td>62%</td>
<td>6%</td>
</tr>
<tr>
<td>The trainers / experts / facilitators were well prepared and knowledgeable about the topic</td>
<td>72%</td>
<td>28%</td>
<td>0%</td>
</tr>
<tr>
<td>The materials distributed were useful</td>
<td>70%</td>
<td>30%</td>
<td>0%</td>
</tr>
<tr>
<td>The time allotted for the training was sufficient.</td>
<td>66%</td>
<td>34%</td>
<td>0%</td>
</tr>
<tr>
<td>Relevance of Workshop to participants’ economy</td>
<td>Very relevant: 35%</td>
<td>Mostly relevant: 57%</td>
<td>Relevant: 8%</td>
</tr>
<tr>
<td>Level of knowledge and skills prior to and after attending the conference</td>
<td>Tremendous improvement: 25%</td>
<td>Significant improvement: 57%</td>
<td>Similar:18%</td>
</tr>
</tbody>
</table>

4. **Output indicators:** Describe the main project outputs below. This may include workshops, tools, research papers, reports, recommendations, best practices, action plan.

<table>
<thead>
<tr>
<th>Indicators (Edit or Insert rows as needed)</th>
<th># planned</th>
<th># actual</th>
<th>Details or notes</th>
</tr>
</thead>
<tbody>
<tr>
<td># workshops / events</td>
<td>1</td>
<td>1</td>
<td>conference</td>
</tr>
<tr>
<td># participants (M/F)</td>
<td>70</td>
<td>88</td>
<td>37 Female / 51 Male</td>
</tr>
<tr>
<td># economies attending</td>
<td>2/3 of the APEC economies</td>
<td>10</td>
<td>Indonesia, Korea, Malaysia, Mexico, Russia, Singapore, Chinese Taipei, Thailand, the United States and Viet Nam</td>
</tr>
<tr>
<td># speakers engaged</td>
<td>10</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td># other organizations engaged</td>
<td>1 (WHO)</td>
<td>1</td>
<td>National Health Research Institutes</td>
</tr>
<tr>
<td># publications distributed</td>
<td>70</td>
<td>90</td>
<td>Conference program books and CD were distributed.</td>
</tr>
<tr>
<td># recommendations agreed on</td>
<td>Nil</td>
<td>Nil</td>
<td></td>
</tr>
<tr>
<td>Other:</td>
<td>1. Poster presentation</td>
<td>1. Poster presentation</td>
<td>1. 11 posters were provided by participating APEC member</td>
</tr>
<tr>
<td></td>
<td>2. Site visit</td>
<td>2. Site visit</td>
<td></td>
</tr>
</tbody>
</table>
economies and displayed during the conference.
2. Site visit to the National Mosquito-Borne Disease Control Research Center.

All conference information were all stored in hard and soft copies, which were distributed to the participants. It can also be accessed online through scanning the QR code that links to the website of the Centers for Disease Control, Chinese Taipei at [http://www.cdc.gov.tw/english/info.aspx?treeid=29B705F2FFCF0C6&nowtreeid=16B326AA0A1E472E&tid=799D6D6FDE0DA539](http://www.cdc.gov.tw/english/info.aspx?treeid=29B705F2FFCF0C6&nowtreeid=16B326AA0A1E472E&tid=799D6D6FDE0DA539).

5. **Outcomes**: Describe any specific medium-term changes to policy, processes or behaviour that can be attributed to result from this activity. Please include details on:
   - **What indicators were used to measure medium-term impact?** (Example indicators: type/number of policies/regulations/ processes changed, % of businesses conforming to new standards, change in sector’s commercial activity, # individual action plans developed, # agencies using resource or tools etc.)
   - **How capacity has been built through the project.**
   - **Monitoring plans in place and proposed indicators to measure impacts, including any impacts on gender. Please summarise relevant information.**

Through the conference and peer discussions, the participants have learned about the global impact of dengue, early warning system of dengue, clinical management of severe dengue cases, current situation of dengue vaccines, and novel tools for vector control. They can use what they learned in the conference to resolve the problems of dengue control in their economies in the future. There were some important outcomes raised in the conference, and those outcomes meet the WHO’s goal of reducing the health impact of dengue.

1. Improve early diagnosis and clinical management of dengue patients to reduce the risk of developing severe dengue.
2. Introduce dengue vaccines as one of the measures to prevent dengue effectively.
3. Use new vector surveillance and control tools to detect and control dengue epidemic earlier.

The indicators or plan could be used to measure medium-term impact:
1. The proportion of dengue rapid tests used at primary health centers, and the duration from onset to be reported.
2. The incidence and mortality of dengue cases can serve as indicators to improve case management.
3. Vector density is an indicator that can be used to improve the integrated vector management.

Those findings were shared and discussed during the conference. Those indicators could be used for reviewing and measuring the outcome of their dengue prevention and control strategies. All the information have been shared on the website of the Centers for Disease Control, Chinese Taipei.

6. **Participants/ Speakers Summary Table** (compulsory for events): Must be gender-disaggregated.

<table>
<thead>
<tr>
<th>Economy</th>
<th># male</th>
<th># female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indonesia</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Mexico</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Malaysia</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Russia</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Chinese Taipei</td>
<td>30</td>
<td>26</td>
<td>56</td>
</tr>
<tr>
<td>Thailand</td>
<td>0</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Viet Nam</td>
<td>2</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Singapore</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Moderatos/Speakers (Thailand, Korea, Singapore, the United State, Chinese)</td>
<td>12</td>
<td>4</td>
<td>16</td>
</tr>
</tbody>
</table>

**Comments:** What was the approach undertaken for participant nomination/selection and targeting? Please provide details. What follow-up actions are expected? How will participants/beneficiaries continue to be engaged and supported to progress this work?

The conference targeted health policy makers, public health officials, health care workers, public health researchers/scholars/analysts and vaccine-related pharmaceutical professionals from APEC economies and relevant partners. During the preparation periods of the conference, we sent the invitation letter and general information of the conference to the APEC Secretariat. And then the APEC Secretariat formally
sent the conference information to the HWG and LSIF’s focal point and ask their nomination. We screen
the nominees’ expertise and background to ensure they were the right candidates for the conference. The
information of these nominees were compiled into a list and sent back to the APEC Secretariat for their
agreement and approval.
A contact information booklet containing the contact details of the participating dengue experts was
developed. Participants can utilize the expert network for sustained consulting and exchange of information
even after they return to their economies.

7. Key findings: Describe 1-3 examples of key findings, challenges or success stories arising
from the project (e.g. research or case studies results, policy recommendations, roadblocks to
progress on an issue, impacts on gender).
The key findings raised during the conference are as follows:

(1) To effectively prevent and control dengue, taking actions earlier is the key. Some of the effective
strategies include fever screening at international airports, the use of NS1 rapid test at international
airports and primary care clinics, optimization of dengue surveillance system to identify suspected
cases earlier, urging local public health authorities to implement multi-pronged control earlier,
encouraging people to eliminate mosquito-breeding containers in the communities, hosting training
courses of clinical case management for doctors, and urging doctors to stay vigilant for and report
suspected cases.

(2) The first dengue vaccine, Dengvaxia® developed by Sanofi Pasteur, has undergone phase III clinical
trials in Asia and Latin America. In November 2017, Sanofi Pasteur announced that individuals of any
age without evidence of prior dengue infection had an increased risk of hospitalized and severe dengue
from natural infection after receiving Dengvaxia®. As a result, in April 2018, WHO SAGE recommended
an update to the existing WHO recommendations, emphasizing the role of direct testing of potential
Dengvaxia® recipients prior to vaccine administration. The experience with Dengvaxia® has led to key
lessons learned, which are being noted by other vaccine developers.

(3) New vector surveillance and control tools have been developed. The tools include biological control
(Wolbachia, copepods, bacillus thuringiensis) and chemical control (pyriproxyfen, ovi-trap containing
boric acid solution). Adopting integrated vector management may improve the outcome of dengue
control.

8. Next steps: Describe any planned follow-up steps or projects, such as workshops, post-activity
evaluations, or research to assess the impact of this activity. How will the indicators from
Question 5 be tracked? How will this activity inform any future APEC activities?
This conference was merely a beginning, we expect the participants to utilize the expert network that the
conference established. In the next step, Chinese Taipei will keep working closely with APEC member
economies, pay attention to the feedback received from the participants, and provide them with the
necessary assistance. Moreover, the news of the conference activities was made available to the public on
the Chinese Taipei CDC’s official web site after the conference. Chinese Taipei will continue to seek APEC
member economies’ support to host the next conference with a different topic on dengue.

9. Feedback for the Secretariat: Do you have suggestions for more effective support by APEC
fora or the Secretariat? Any assessment of consultants, experts or other stakeholders to share?
The Secretariat examines feedback trends to identify ways to improve our systems.
Nil

SECTION C: Budget
Attach a detailed breakdown of the APEC- provided project budget, including:
- Planned costs: (using most recently approved budget figures)
- Actual expenditures
- Variance notes: An explanation of any budget line under- or over-spent by 20% or more.

Planned costs:

<table>
<thead>
<tr>
<th>Budget Category</th>
<th>Amount (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>APEC funding</td>
<td>$80,500</td>
</tr>
<tr>
<td>Labor costs</td>
<td>$10,000</td>
</tr>
<tr>
<td>Travel (per diem, airfare)</td>
<td>$64,940</td>
</tr>
<tr>
<td>Other (communication, hosting)</td>
<td>$5,560</td>
</tr>
<tr>
<td><strong>Self funding</strong></td>
<td><strong>$60,000</strong></td>
</tr>
<tr>
<td>Labor costs</td>
<td>$13,280</td>
</tr>
<tr>
<td>Travel (per diem, airfare)</td>
<td>$37,200</td>
</tr>
</tbody>
</table>
Other (publication, equipment, materials, photocopying, communications, hosting) $9,520

**In total planned budget (USD)** $140,500

**Actual expenditures:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>APEC funding (USD)</strong></td>
<td>TBC by APEC Secretariat</td>
</tr>
<tr>
<td>Labor costs</td>
<td>$10,000</td>
</tr>
<tr>
<td>Travel (per diem, airfare)</td>
<td>TBC by APEC Secretariat</td>
</tr>
<tr>
<td>Other (communication, hosting)</td>
<td>$5,500</td>
</tr>
<tr>
<td><strong>Self funding (USD)</strong></td>
<td>$61,896</td>
</tr>
<tr>
<td>Include the welcome dinner, meals and coffee breaks during the conference; travel fee for invited moderators and speakers, photographs, communication, conference publications and materials design and printing, transportation fee, etc.</td>
<td>$61,896</td>
</tr>
<tr>
<td><strong>In total planned budget (USD)</strong></td>
<td>TBC by the Secretariat</td>
</tr>
</tbody>
</table>

**SECTION D: Appendices**

Please attach the following documentation to the report. **Note that the contact list for participants/experts/consultants is a mandatory requirement for all Project Completion Reports.**

<table>
<thead>
<tr>
<th>Item</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>** Appendices**</td>
<td></td>
</tr>
<tr>
<td>✓ Participant contact list, including name, email address, gender, organization (mandatory)</td>
<td></td>
</tr>
<tr>
<td>✓ Experts / consultants list, including name, email address, gender, organization (mandatory)</td>
<td></td>
</tr>
<tr>
<td>✓ Event Agenda</td>
<td></td>
</tr>
<tr>
<td>✓ Reports, websites or resources created: links or soft copies</td>
<td>Website: <a href="http://www.cdc.gov.tw/english/info.aspx?treeid=29B705F2FFFCF0C6&amp;nowtreeid=16B326AA01E472E&amp;tid=799D6D6FE0DA539">http://www.cdc.gov.tw/english/info.aspx?treeid=29B705F2FFFCF0C6&amp;nowtreeid=16B326AA01E472E&amp;tid=799D6D6FE0DA539</a></td>
</tr>
<tr>
<td>✓ Post activity survey or other evaluation data (raw and/or aggregated)</td>
<td>APEC Project Evaluation Survey</td>
</tr>
<tr>
<td>Other information or resources</td>
<td></td>
</tr>
</tbody>
</table>

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**APEC comments:** Were APEC project guidelines followed? Could the project have been managed more effectively or easily by the PO?
Appendices

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## Experts / consultants

<table>
<thead>
<tr>
<th>Name</th>
<th>Gender</th>
<th>Organization</th>
<th>Position</th>
<th>E-mail</th>
</tr>
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<tbody>
<tr>
<td>Jih-Haw Chou</td>
<td>M</td>
<td>Centers for Disease Control, Chinese Taipei</td>
<td>Director-General</td>
<td><a href="mailto:jchou@cdc.gov.tw">jchou@cdc.gov.tw</a></td>
</tr>
<tr>
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</tr>
<tr>
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<td><a href="mailto:swhitehead@niaid.nih.gov">swhitehead@niaid.nih.gov</a></td>
</tr>
<tr>
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</tr>
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</tr>
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<td><a href="mailto:yee_sin_leo@ttsh.com.sg">yee_sin_leo@ttsh.com.sg</a></td>
</tr>
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<tr>
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<td>M</td>
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<tr>
<td>Name</td>
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<td>Position</td>
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<tr>
<td>Chin-Hui Yang</td>
<td>F</td>
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<td></td>
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<td>Institute of Environmental Health, National Taiwan University, Chinese Taipei</td>
<td><a href="mailto:testov.vadim@mail.ru">testov.vadim@mail.ru</a></td>
<td></td>
</tr>
<tr>
<td>Wu-Chun Tu</td>
<td>M</td>
<td>Medical Entomology Laboratory, Department of Entomology, National Chung Hsing University, Chinese Taipei</td>
<td><a href="mailto:wctu@dragon.nchu.edu.tw">wctu@dragon.nchu.edu.tw</a></td>
<td></td>
</tr>
<tr>
<td>Jien-Wei Liu</td>
<td>M</td>
<td>Division of Infectious Diseases, Department of Internal Medicine, Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Chinese Taipei</td>
<td><a href="mailto:cychiang@theunion.org">cychiang@theunion.org</a></td>
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<tr>
<td>Time</td>
<td>Subject</td>
<td>Moderator / Speaker</td>
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<td>08:20-09:00</td>
<td>Registration</td>
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<tr>
<td>09:00-09:10</td>
<td>Cultural Performance</td>
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</tbody>
</table>
| 09:10-09:20  | Opening Remarks                                   | Dr. Chi-Kung Ho
Deputy Minister, Ministry of Health and Welfare, Chinese Taipei |
| 09:20-09:30  | Group Photo (Invited Guests)                      |                                                          |
| 09:30-10:10  | **Keynote Speech**                               | Moderator
Dr. Jih-Haw Chou
Director-General, Centers for Disease Control, Chinese Taipei  
Speaker
Prof. Duane J Gubler
Emeritus Professor, Emerging Infectious Diseases, Duke-NUS Medical School, Singapore / Adjunct Professor, International Health, Johns Hopkins School of Hygiene and Public Health / Adjunct Professor, Infectious Diseases, Duke University Medical School, The United States |
| 10:10-10:30  | Coffee Break                                      |                                                          |
| **Session I**| **Early Diagnosis and Clinical Management**       | Moderator
Prof. Ih-Jen Su
Distinguished Professor, Department of Biotechnology, Southern Taiwan University of Science and Technology , Chinese Taipei  
Dr. Chin-Hui Yang
Division Director, Division of Acute Infectious Diseases, Centers for Disease Control, Chinese Taipei |
| 10:30-11:00  | Epidemiology and Strategies for Early Detection of Dengue Case in Chinese Taipei |                                                          |
| 11:00-11:30  | Dengue Fever in Thailand                          | Dr. Darin Areechokchai
<table>
<thead>
<tr>
<th>Time</th>
<th>Subject</th>
<th>Moderator / Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30-12:00</td>
<td>Dengue Illness: Emphasizing Diverse Clinical Manifestations in Adults</td>
<td>Dr. Jien-Wei Liu&lt;br&gt;Medical Doctor, Division of Infectious Diseases, Department of Internal Medicine, Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Chinese Taipei</td>
</tr>
<tr>
<td>12:00-12:30</td>
<td>Clinical Predictors and Case Management of Severe Dengue in Singapore</td>
<td>Prof. Yee-Sin Leo&lt;br&gt;Executive Director, National Centre for Infectious Diseases, Singapore</td>
</tr>
<tr>
<td>12:30-12:40</td>
<td>Panel Discussion</td>
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<tr>
<td>12:40-14:00</td>
<td>Lunch Break</td>
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<tr>
<td>14:00-14:30</td>
<td>Dengue Vaccine: Current Situation and Public Health Impact</td>
<td>Dr. In-Kyu Yoon&lt;br&gt;Director, Global Dengue &amp; Aedes-Transmitted Diseases Consortium (GDAC) International Vaccine Institute, Republic of Korea</td>
</tr>
<tr>
<td>14:30-15:10</td>
<td>Update of Dengue Vaccine Development at the US NIH</td>
<td>Dr. Stephen Whitehead&lt;br&gt;Senior Associate Scientist, Laboratory of Infectious Diseases, NIAID, NIH, The United States</td>
</tr>
</tbody>
</table>

**Session II**

**Dengue Vaccine**
**Thursday, May 3, 2018**

<table>
<thead>
<tr>
<th>Time</th>
<th>Subject</th>
<th>Moderator / Speaker</th>
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<tbody>
<tr>
<td></td>
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<td>Professor, Johns Hopkins</td>
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<td></td>
<td></td>
<td>Bloomberg School of Public Health, The United States</td>
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<tr>
<td>15:10-15:30</td>
<td>Coffee Break</td>
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<tr>
<td>15:30-15:50</td>
<td>Dengue Drivers, Restrainers, and the role of Biomedical Interventions</td>
<td><strong>Prof. Michael Malison</strong>&lt;br&gt;Adjunct Professor, Department of International Health, Rollins School of Public Health, Emory University, The United States</td>
</tr>
<tr>
<td>15:50-16:00</td>
<td>Update of Dengue Vaccine Developed by Sanofi Pasteur</td>
<td><strong>Dr. Ta-Wen Yu</strong>&lt;br&gt;Regional Medical Head, Regional Medical Affairs, Sanofi Pasteur, Singapore</td>
</tr>
<tr>
<td>16:20-16:50</td>
<td>Panel Discussion</td>
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<tr>
<td>16:50-17:00</td>
<td>Group Photo (All Participants)</td>
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<tr>
<td>18:00-20:00</td>
<td>Welcome Party (Invited Only)</td>
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</table>

**Friday, May 4, 2018**

<table>
<thead>
<tr>
<th>Time</th>
<th>Subject</th>
<th>Moderator / Speaker</th>
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<tbody>
<tr>
<td>08:30-09:00</td>
<td>Registration</td>
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<tr>
<td><strong>Session III</strong></td>
<td><strong>New Technology Development in Vector Surveillance and Control</strong></td>
<td><strong>Moderator</strong>&lt;br&gt;Dr. Ching-Len Liao&lt;br&gt;Investigator and Director, National Institute of Infectious Diseases and Vaccinology, National Health Research Institutes, Chinese Taipei</td>
</tr>
<tr>
<td>09:00-09:30</td>
<td>Project Wolbachia Singapore - Using Male Aedes to Fight Dengue Mosquitoes</td>
<td><strong>Dr. Cheong-Huat Tan</strong>&lt;br&gt;Research Scientist, Environmental Health Institute, National Environment Agency, Singapore</td>
</tr>
<tr>
<td>Time</td>
<td>Subject</td>
<td>Moderator / Speaker</td>
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</table>
| 09:30-10:00| Field Experience on Ecological Control of Dengue and Malaria Vectors     | Dr. Kun-Hsien Tsai  
Associate Professor, Institute of Environmental Health, National Taiwan University, Chinese Taipei |
| 10:00-10:20| **Coffee Break**                                                        |                                                                                     |
Professor, Medical Entomology Laboratory, Department of Entomology, National Chung Hsing University, Chinese Taipei |
| 10:50-11:20| **Panel Discussion**                                                    |                                                                                     |
| 11:20-11:30| Closing Remarks                                                         | Dr. Jih-Haw Chou  
Director-General, Centers for Disease Control, Chinese Taipei                      |
| 11:30-12:30| **Lunch Break**                                                        |                                                                                     |
| 12:30-13:00| Shuttle to the Mosquito-Borne Diseases Control Research Center (Invited Only) |                                                                                     |

**Session IV**

- Site Visit to the Mosquito-Borne Diseases Control Research Center

  - Registration & Team Assignment
  - Introduction of MDC
  - Visit & Practice*

<table>
<thead>
<tr>
<th>Team I</th>
<th>Team II</th>
<th>Team III</th>
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<tbody>
<tr>
<td>A</td>
<td>D</td>
<td>C</td>
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<tr>
<td>B</td>
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<td>D</td>
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<tr>
<td>C</td>
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<td>A</td>
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<tr>
<td>D</td>
<td>C</td>
<td>B</td>
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</table>

- Discussion

*Visit & Practice area:

- A: Mosquito factory
- B: Mosquito rearing rooms
- C: Biological control measures
- D: Chemical control measures
## Project Title:
**APEC Conference on Severe Dengue Prevention and Strategies for Reducing Disease Burden**

1. **Instructions:** Please indicate your level of agreement with the statement listed in the table below.

<table>
<thead>
<tr>
<th></th>
<th>Strongly Agree</th>
<th>Agree</th>
<th>Disagree</th>
<th>COMMENTS (Continue on back if necessary)</th>
</tr>
</thead>
<tbody>
<tr>
<td>The objectives of the training were clearly defined</td>
<td>58%</td>
<td>39%</td>
<td>3%</td>
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<tr>
<td>The project achieved its intended objectives</td>
<td>56%</td>
<td>44%</td>
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<tr>
<td>The agenda items and topics covered were relevant</td>
<td>58%</td>
<td>42%</td>
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<td></td>
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<tr>
<td>The content was well organized and easy to follow</td>
<td>70%</td>
<td>30%</td>
<td></td>
<td></td>
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<tr>
<td>Gender issues were sufficiently addressed during implementation</td>
<td>32%</td>
<td>62%</td>
<td>6%</td>
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</tr>
<tr>
<td>The trainers/experts or facilitators were well prepared and knowledgeable about the topic</td>
<td>72%</td>
<td>28%</td>
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</tr>
<tr>
<td>The materials distributed were useful</td>
<td>70%</td>
<td>30%</td>
<td></td>
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<tr>
<td>The time allotted for the training was sufficient.</td>
<td>66%</td>
<td>34%</td>
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</table>
2. How relevant was this project to you and your economy?

<table>
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<tr>
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<tbody>
<tr>
<td>(very)</td>
<td>(not much)</td>
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</table>

   Result: 35% 57% 8% 0% 0%

3. Rate your level of knowledge of and skills in the topic **prior to** participating in the event.

<table>
<thead>
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<tbody>
<tr>
<td>(very)</td>
<td>(not much)</td>
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</tbody>
</table>

   Result: 12% 34% 48% 6% 0%

4. Rate your level of knowledge of and skills in the topic **after** participating in the event.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>(very)</td>
<td>(not much)</td>
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</tbody>
</table>

   Result: 25% 57% 18% 0% 0%

All comments and suggestions:

- The agenda items and topics covered were relevant
  1. Too must review of the Asian economies epidemiology

- Gender issues were sufficiently addressed during implementation
  1. N/A
  2. No Gender issues were discussed

- The materials distributed were useful
  1. Lacking some slides
  2. Would prefer to have more material online

- 1. How relevant was this project to you and your economy?
  1. Audience was very disparate and of wide span of seniority
  2. The globalization process, tourism, etc
  3. While Dengue fever in Russia is only limited to imported cases now, there are all ready established preregusits for - the virus spread in certain areas. This conference is a great importance for sharing and experience on Aedes, control, using cheap and technological methods
  4. The topics were interesting and fun kindle for the tongue.
  5. It show us the different strategies of other economies.
  6. knowing about the experience of others, it is really useful and increase about defeating the Dengue."
  7. It matters a lot to where I work and what I do.
  8. I am very happy with this project because it deals with our work
  9. For southeast Asia, the dengue fever is the most important infectious disease issue, it has caused an of damage for economies."
  10. provide update on disease, technology technical
11. Very, cause of the Tainan city used to facing the disease of dengue fever, so it means a lot to us.
12. Relevant to research interest
13. Very, As dengue epidemics occur frequently in Chinese Taipei
14. The dengue disease is very important infection mosquito borne disease in Chinese Taipei although most of the cases were not infected from local area. According those topics in this conference, I can realize the new skills/methods for controlling this disease by vaccine or mosquito control. They are really the best references for us in making epidemic prevention policy under the other economy’s experience.

2. In Your view what were the project's results/achievements
1. Awareness within attending APEC about Chinese Taipei interest in dengue
2. Sharing knowledge as well as bridge gaps before ecology for better control behavior
3. Our connect a lot of economies in Asia and other areas to share their experiences about dengue topic.
4. The project results’s is quite good. You did a good job ito invite world-experts in the field to join the meeting
6. Review of controls in Asia and APEC
7. Prospective promotion
8. To share and expand knowledges on different aspects of Dengue fever control (diagnostics, prevaccination, surveillance), to suggest a action different economies.
9. For our economy, we got the experience in mosquito surveillance.
10. The principal results with the experience and points of view about changed
11. I think is about the dengue control
12. Communication of the different economy
13. All of them, including trend vaccine monitoring and analysis about the Dengue fever.
14. Provide platform to update knowledge regarding topic
15. Good
16. Prevention on Dengue disease
17. Has make progress in dengue control
18. It provides the latest development of dengue control method, such as Wolbachia, and each economies has shared their experiences together.
19. Provide update on disease, technology technical
20. Experience Exchange
21. Sharing experiences on severe dengue cases
22. Very good discussion around dengue
23. Get to know and update the current status of dengue prevention and the strategy applied
24. New strategy for Dengue control
25. Good networking occasion for the participants
26. Sure, better than nothing

3. What new skills and knowledge did you gain from this event?
1. Definitely, Wolbachia - approach and management system.
2. Mosquito management concept
3. Chinese Taipei's control system
4. Sharing knowledge and well approaches
5. I can update more knowledge about vector surveillance and new tools to control this.
6. Vector from other economies such as Singapore and Chinese Taipei.
7. Really Diagnosis and Clinical Management, dengue Vaccine.
8. Presentation, how keep interest participants
9. Dengue vaccine effectiveness updates, advance strategies for mosquito control
10. uncounted amount of knowledge.
11. Vaccine against dengue and entomological surveillance
12. The different strategies to control dengue most the mosquitos.
13. Different kinds of vaccine from other economies.
14. Vaccine
15. The knowledge about the technology and vaccine.
16. Wolbachia, outraps, IVM
17. Dengue vaccine update
18. Vaccination development
19. knowledge and technology in dengue vaccine control
20. Wolbachia is new method which might can help us to reduce the number of rectors. But we still need focus on the environmental control measures.

22. New technology of Aedes control
23. New technical skills for dengue prevention
24. After lessons, I learned about how vaccines become better and better, and how it works to human. And the vector monitoring with the ovitrap.
25. Updated the current status of dengue prevention and the strategy applied
26. Global mosquito borne disease strategy
27. The progression of dengue vaccine development and new biotools for Aedes aegypti mosquito control were provided during the meeting
28. The wolbachia method for mosquito borne disease maybe is a nice choice under the good relationships between government and his people

5. Rate your level of knowledge of and skills in the topic after participating in the event:
1. Now approach, states of vaccine, really great !
2. Gain more experience of Wolbachia project.
3. Great/ excellent Presentations, scientific Basis
4. The conference successfully cover all major topics and research milestones on Dengue fever prevention control.
5. We saw the useful developments, that made by professionals.
6. Ouitraps
7. Learning the new knowledge from others
8. learning about what character those vaccines played in these days and how they effect the epidemic.
9. Since my work assignment isn't dengue control, many knowledge addressed in the conference is quite fresh for me, I gain a lot.
10. As above
11. I had learned some from this conference’s topic

6. How will you apply the project’s content and knowledge gained at your workplace? Please provide examples (e.g. develop new policy initiatives, organise trainings, develop work plans/ strategies, draft regulations, develop new procedures/ tools etc.)
1. It's hard to say, but yes for environmental management!
2. develop work plans and strategies
3. Develop/support near potting inhabits and new tools
4. Develop new methods and collect information with other economy and training
5. yes, will have a new ideas to develop my work plans.
6. We will have a discussion with our own group to have a plan in Viet Nam apply to our studies.
7. N/A industry (ISIF) representative
8. Develop new procedures vaccine programme
9. I am going to organize a workshop and raise awareness on a dengue introduction in Russia as government level
10. the ovitramp with in the control of vector
11. In the sovillauce of Dengue vaccine and algo in dengue program in my economy.
12. Organize training
13. Develop more work plans and organise trainings, making them better.
14. organize trainings, get more networking partners, develop more tools and methods
15. As some vaccine is more of a public health value, it would be difficult for local government to publicly fund the vaccine — not persuasive enough
16. prevent dengue theory use effective vaccine
17. I will share those knowledge to officers who is in charge of dengue control.
18. training student
19. Learned experience from Singapore example
20. Developing SOP for adult dengue case management
21. Additional vaccine development
22. I will use the skills to increase the monitoring and analysis about the epidemic of dengue fever.
23. Develop collaborations for dengue research studies and prevention
24. New mosquito surveillance strategies
25. Conduct more related research to fit in the need
26. It will be the nice reference for our economy when make the epidemic prevention policy or fund program

7. What needs to be done next by APEC? Are there plans to link the project’s outcomes to subsequent collective actions by for a or individual actions by economies?
1. Create more conference
2. Creative more conference
3. Collecting achievement and best practice by add economy to share knowledge.
4. Compare more different Wolbachia projects in other economies where research this topics, we can suggest this action in our economy or not.
5. For next meeting, it is necessary that the ongoing project be important
6. YES
7. Focus more on intervention programcontrutynam
8. Invitation professionals; like in this moment
9. Longtime to do the great work on bring the astonishing specialists together
10. Yes, I have some projects, for example the study about to impact the health promotion in the control of vector
11. I think skill, it is important to share each economy’s own experience and knowledge, communicate with others making each other better and better.
12. MDR bacteria inteckin
13. More themes about the speech
14. Vaccine / infectious disease is governed by CDC, but other gov agencies, such as moon, NDC should also be involved.
15. case effective vector control of and vaccine
16. There are too many project related to infectious disease research issue. APEC needs to combine disaster management issue with infectious disease control issue to enhance health departments.
17. expound program
18. New microphones
19. I think this project is wonderful, Thank you for inviting me, I appreciate it
20. Have more capacity for the participants
21. Further update the progression vaccine development and the efficacy in those economies in which the citizen started to receive dengue vaccinations.
22. Maybe about the environmental protection or living conservation

8. How could this project have been improved? Please provide comments on how to improve the project, if relevant.
   1. Greater involvement of dengue experts from participating APEC conference, especially dengue experts from dengue endemic economies.
   2. Each economy to present their progress on dengue. Brief presentation eg. 15 minutes
   3. The interned in the hotel some always limited connect.
   4. For Wolbachia Project there is another group from monash that you should invite to come as the at most acritical stage of this project.
   5. Propose topics which could be more policy enables Expand content on vaccination and Vaccines
   6. Continue work, this difficult work, result 0 cases Dengue!
   7. Nothing to improve, keep the level
   8. Control of vector is the principal action for the to stop the disease.
   9. Make sure the speeches will still be held.
   10. It's better enough, please keep going
   11. get more updates research and development methods from other economies
   12. High ranking officials should attend to show support and Also, logistic wise, the equipment in the venue must be improved.
   13. In surveilence in dengue control
   14. If Chinese Taipei will held dengue related projects, I look forward to hearing outbreaks control experiences.
   15. bridges program
   16. No