



NOTES OF SECOND PLANNING MEETING

PACIFIC RIM CITIES: CLIMATE CHANGE MITIGATION AND ADAPTATION STRATEGIES (CMAS)

APRIL 27-29, 2008, UNIVERSITY OF MALAYA

INTRODUCTION

1. The second meeting of the AWI CMAS participants was held in Kuala Lumpur, hosted by Prof. Azizan of the University of Malaya, April 27-29, 2008. The following organizations participated.
 - University of Melbourne
 - University of California, San Diego
 - Chulalongkorn University
 - Kyoto University (working in Hanoi and Danang)
 - National University of Singapore
 - Tsinghua University (working in several Chinese cities)
 - University of Malaya
 - APRU and AWI Secretariat
2. The program for the meeting can be found in **ANNEX A**. A full list of attendees and contact information is in **ANNEX B**.

PROJECT STATUS

3. Prof. Azizan welcomed the group to the University of Malaya. AWI Climate Change project co-directors, Lisa Shaffer and Jim Falk, summarized the history of the project and outlined a process for moving forward. It was suggested that an initial focus be defined, and let the project evolve. They explained that the group's aim is to use their collective experience and expertise to improve their contributions to sustainability in their respective city/regions in the face of climate change, and to enhance education for students and the public about critical issues in environment, sustainability and climate change.
4. The project co-directors noted that interdisciplinary, multi-institutional collaborative research project planning and coordination would be challenging. The group would be trying new things, and learning as they progress. However, the issues that the group would be addressing are vitally important and increasing in salience. The group recognized that each city-region is unique, yet all share some common challenges.

POTENTIAL BENEFITS

5. Some of the areas in which the group sees potential benefits from collaboration include:
 - **Assessment & prediction:** knowing what is happening now, and what is likely to happen in the future - climate system, hydrological system, human/societal systems
 - **Governance, decision-making, understanding change:** if we can figure out what we should do differently, how can we actually accomplish the changes – identifying and overcoming barriers, motivating public attitudes, government action, organizational and individual values and choices
 - **Funding research and cross-sectoral collaboration:** how to get resources to support continued research and the testing and application of research findings in the “real-world”
 - **Education:** how to train scholars and practitioners to be effective leaders in the 21st century

OBJECTIVE OF MEETING

6. The objective of the meeting was to formulate a plan in moving the project forward, which would involve the development of one or more proposals for substantial funding on a long-term basis. Thus, the project would be contributing something of value which, without the multi-institutional collaboration, would not be possible.

PRESENTATIONS BY INSTITUTIONS

7. Each of the participating institutions gave excellent presentations on the research projects they were undertaking. The presentation materials will be available on the AWI website at www.apru.org/awi/cmas/index.html. The group shared the level of interaction their universities had with public officials at both staff and senior positions in governments, and acknowledged the potential value-add that the AWI collaborative project would bring to those interactions.

THEME CATEGORIZATION

8. After the presentations by all the participating institutions, “clusters” of interests were identified. However, because all the issues raised overlap and intersect, there was no single approach that would address every participating institution’s interests and constraints. The clusters of interests could be categorized as the following problem-oriented themes:

A. Integrated Water Systems Management

Includes consideration of extreme events (both drought and flooding), and the expected increased variability in water systems due to climate change impacts

B. Coastal Ecosystems and Erosion

Includes coastal water quality, impacts on coastal economic activities such as aquaculture, and the interaction of human development and ecosystem health in coastal environments

C. Development in Carbon-Constrained Cities

How to promote economic prosperity while reducing greenhouse gas emissions and environmental stresses

COMMON ISSUES

9. Issues that cut across those themes include governance, education, science and technology. Key questions for all the themes include:
- a. What do we need to know (data & information)?
 - b. What technology/science approaches are available?
 - c. What are the best practices (governance) to achieve these goals?
 - d. What are the institutional barriers to moving forward?

INTEGRATED WATER SYSTEMS MANAGEMENT

10. The institutions who have agreed to work on this theme are:
- Chulalongkorn University
 - Kyoto University
 - NUS
 - U of Malaya
 - UCSD
11. This group of institutions has agreed to develop a work plan leading to a meeting which will be organized by Kyoto University and the AWI Secretariat, and be held in Danang, Vietnam, in mid-September 2008. From now till then, the institutions will undertake the following tasks:
- a. Document the state of affairs of the integrated water systems management in the cities in which they work
 - b. Sharing of information among the group members
 - c. Conduct regular email exchanges, video or teleconferences
 - d. Identify specific opportunities that will enhance collaboration between the group members

12. These actions will form the basis for the development of a funding proposal that will be finalized after the September meeting. The AWI secretariat and project co-leaders will work with the group to identify and pursue appropriate funding sources.
13. The desire is to improve the understanding of integrated water systems management and to develop better solutions through sharing respective experiences in both human/social and technological dimensions. This group will also collaborate on educational initiatives, which could include compiling case studies; developing on-line courses; and improving public awareness and interaction with public officials.

Specific Actions

14. The specific actions for Integrated Water Systems Management team are:
 - I. Document what each city/region is doing in integrated water management
 - a. **Due June 1**
 - b. 10-15 pages
 - c. Address the 4 questions in “Common Issues” above
 - II. AWI Secretariat to schedule teleconference/video conference monthly
 - a. Compare notes; identify areas for productive collaboration
 - b. Develop draft proposal
 - c. Explore prospective funding sources
 - III. Convene workshop in Danang in mid-September (**Kyoto University to lead**)
 - a. Finalize proposal
 - b. Work on educational outputs
 - i. University training for environmental engineering, water management, ecology, etc.
 - ii. Public outreach and stakeholder engagement
 - c. Review progress on other themes
15. AWI Secretariat and project co-directors will work with this group to locate potential funding resources from external sources.

COASTAL ECOSYSTEMS

16. The institutions who have agreed to work on this theme are:
 - University of Malaya
 - University of Melbourne
 - UC San Diego

17. However, there were not enough representatives of the institutions to develop a plan further. They will continue interacting by email and involve other institutions that would be interested.

Specific Actions

18. The specific actions for Coastal Ecosystems team are:
- I. Interested AWI members provide to the AWI secretariat the names and contact information of their representative **by May 16**.
 - II. U of Malaya and UCSD to prepare initial draft project description and organize teleconference with interested participants by mid-June.

CARBON-CONSTRAINED CITIES

19. The institutions who have agreed to work on this theme are:

- Kyoto University (tentative)
- UCSD
- University of Melbourne
- Tsinghua University

Specific Actions

20. The specific actions for Carbon-Constrained Cities team are:
- I. Set up initial steering committee, which could include other institutions
 - II. Design and development of workshop with emphasis on the following:
 - a. Reducing carbon emissions from the water cycle
 - b. Issues on governance
 - c. Availability of technologies and techniques that will reduce carbon emissions whilst managing water cycle challenges, and barriers to their effectiveness
 - d. Identify the specific individuals to be the points of contact for the carbon-water project **by May 16**
 - e. Conduct initial teleconference **by May 23**
21. The general questions to be addressed are:
- a. What is known about emissions for different options in the supply and use of water (including embodied water) in our cities? What are the research gaps to introducing carbon emission efficiencies?

- b. What governance issues are raised in each city, and how do they apply to implementing efficient water planning in case-study cities in a carbon constrained economy?
- c. What research expertise is available in our respective universities and their networks to assist in answering these questions?
- d. What research priorities arise from seeking to answer the above questions, and what research project, if funded, would best assist in overcoming current barriers?

PUBLIC FORUM ON CLIMATE CHANGE

22. During the meeting, the participating institutions had the opportunity to dialog with Datuk Suboh Mohd Yassin, Secretary General of the Malaysian Ministry of Natural Resources and Environment. The Secretary General shared his concerns on the effects of changing climate conditions on Malaysia, and lauded the AWI CMAS project team on their collaborative efforts to address the climate change issues in the Asia Pacific Rim.
23. U of Malaya organized a Public Forum on Climate Change in which the AWI CMAS participants appended below were invited to be panelists. The moderator of the panel was Prof. Azizan from the U of Malaya.
 - Lisa Shaffer, UCSD
 - Jim Falk, U of Melbourne
 - Rajib Shaw, Kyoto University
24. The Public Forum was webcast and all APRU members were invited to observe the proceedings. Astro Malaysia interviewed the panelists after the Forum.

AWI GOVERNING BOARD MEETING

25. AWI Managing Director, Richard Drobnick and AWI Climate Change project co-director Jim Falk will be making a report to the AWI Governing Board on June 26. Therefore this meeting gave the group an opportunity to provide an updated assessment of the project for their report.

NEXT AWI CLIMATE CHANGE WORKSHOP

26. The 2nd AWI Climate Change Workshop will be held in Danang, Vietnam, in mid-September. The group agreed to work out the dates and further details with Kyoto University.

CONCLUSION

27. The final session of the meeting focused on the finalization of agreements and process. One key issue which was stressed was the difficulty of maintaining momentum in an international research program once participants returned to their own countries. It was agreed that it was a priority to maintain effective communication. To do this:
 - a. A monthly conference call of lead participants would be organized. It would be essential for all teams to participate in each of these calls.
 - b. Those present agreed to place a firm priority on responding to emails requiring action. If an email could not be immediately responded to in full, then an interim response would be sent to indicate that it had arrived and was being attended to. Emails from the Secretariat requiring action would be labeled "ACTION:" in their subject line.

28. The final session also gave attendees the opportunity to reflect on the value of the meeting and to share their thoughts. This revealed several very interesting comments on the importance of maintaining a historical perspective on the interaction of humans and the natural environment, and the introduction of technological solutions; and on our role in education – how to disseminate the knowledge we gain in meetings like this one to our students, colleagues, and community members. All members of the group mentioned that they were obtaining valuable ideas from the reports on the research projects of the other national teams. The group expressed its deep appreciation to the AWI secretariat and to Prof. Azizan and his colleagues for excellent organization and hospitality.

Recorded by: **Lisa Shaffer (Project Co-Director)**
Executive Director, Environment & Sustainability Initiative
University of California, San Diego

Jim Falk (Project Co-Director)
Professor and Director, Australian Centre for Science,
Innovation and Society & Convener, Climate Adaptation
Science and Policy Initiative, University of Melbourne

With minor edits by: **Richard Drobnick**
Managing Director, APRU World Institute

Date: May 12, 2008

PROGRAM: 2ND CMAS PLANNING MEETING, APRIL 27 – 29, 2008

Date	Agenda
Sunday, 27 April	<i>Kristal Suite 1 & 2, Hilton Petaling Jaya</i>
4:00pm – 5:30pm	Welcome & Introduction Presentation by AWI CMAS project co-directors: <i>Lisa Shaffer, Executive Director, Environment and Sustainability Initiative, University of California, San Diego</i> <i>Jim Falk, Convener, Climate Adaptation and Policy Initiative, University of Melbourne</i>
7:00pm	Welcome Dinner Hosted by University of Malaya Venue: Paya Serai, Hilton Petaling Jaya
Monday, 28 April	<i>Anggerik Meeting Room, Institute of Postgraduate Studies University of Malaya</i>
9:00 am	AM Session (AM – Part I) <ul style="list-style-type: none">• Progress updates by participating institutions
10:30-11:00am	Coffee Break
11:00am	AM Session (AM – Part II) <ul style="list-style-type: none">• Progress updates by participating institutions
12:00pm	LUNCH
1:30pm	PM Session (PM – Part I) <ul style="list-style-type: none">• Integrating the research strategy• Defining an agenda for future collaboration• The way forward
3:30-4:00pm	Coffee Break
4:00pm	PM Session (PM – Part II) <ul style="list-style-type: none">• Continued Discussion

Date	Agenda
4:30 – 5:00pm	Visit by Datuk Suboh Mohd Yassin, Secretary General, Ministry of Natural Resources and Environment of Malaysia
5:00pm	Adjourn
6:00 – 7:45pm	University of Malaya - Public Forum on Climate Change <i>Venue: Dewan Balai Ungku Aziz, Faculty of Dentistry, University of Malaya</i>
8:00pm	Closing Dinner Hosted by University of Malaya <i>Venue: Toh Yuen, Hilton Petaling Jaya</i>
Tuesday, 29 April	<i>Jasmine 2, Hilton Petaling Jaya</i>
8:00am	Planning Meeting for 2008 AWI Climate Change Workshop
11:00am	End

ANNEX B**PARTICIPANTS AT THE 2ND CMAS PLANNING MEETING, APRIL 27 – 29, 2008**

PARTICIPANT	DESIGNATION	EMAIL
Chulalongkorn University		
1. Danai Thaitakoo	Landscape/Urban Ecology and Planning Built Environment Innovation Center	danait@yahoo.com
Kyoto University		
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8. Lisa Shaffer	Executive Director, Environment & Sustainability Initiative & AWI Climate Change and Sustainability Director	lshaffer@ucsd.edu
9. Paul Linden	Director, Environment & Sustainability Initiative & Blasker Professor of Environmental Science and Engineering Department of Mechanical and Aerospace Engineering	pflinden@ucsd.edu

University of Malaya		
10. Azizan Abu Samah	Professor Deputy Dean, Faculty of Arts and Social Science & Director, National Antarctic Research Program Department of Geography	azizans@um.edu.my
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University of Melbourne		
15. Jim Falk	Director, Australian Centre for Science, Innovation and Society (ACSIS) & Convener, Climate Adaptation Science and Policy Initiative	jfalk@unimelb.edu.au
APRU Secretariat		
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APRU World Institute (AWI)		
17. Richard Drobnick	Managing Director, AWI & Director, Center for International Business Education & Research, Marshall School of Business, University of Southern California	drobnick@usc.edu
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